

# Update of COVID-19 & Racial Disparities in Michigan

Sep 24, 2021

Disparities Data Committee

# Purpose

- *Provide relevant data to aid the Lt. Governor-appointed Racial Disparities Task Force in better understanding and addressing the needs of racial and ethnic minority communities.*
  - *Outline existing upstream factors that result in disparities and put some people at greater risk of severe impact of COVID-19 epidemic and response*
  - *Identify a set of actionable downstream indicators that can be used to measure change in disparity in short term*

# Disparity Indicators

Indicator: Rationale	Sample of Proposed Metrics
SARS-CoV-2 Testing: Are we testing enough in all communities?	Report testing by Race and Ethnicity Testing Rate in Socially Vulnerable Communities Early identification when there is insufficient testing
SARS-CoV-2 Spread: What is the spread of COVID-19 in Michigan populations?	Number & Percent of COVID-19 Cases by Race and Ethnicity Case Rate per Million People by Race and Ethnicity Missingness of Race/Ethnicity data for COVID-19 cases
COVID-19 Severity: Are some groups experiencing more severe outcomes?	COVID-19 diagnosis in Emergency Departments and Urgent Care Number & Percent of COVID-19 Deaths by Race and Ethnicity Death Rate per Million People by Race and Ethnicity
Access to Services for COVID-19: Is case investigation and contact tracing equitable? Are supportive services available for quarantine/isolation compliance? Is vaccine distributed equitably?	Percent of cases who were followed up with Case Investigation Percent of cases who indicated need for services and services provided Total vaccines administered by race and ethnicity Percent of population with first dose, completed vaccine series
Impact of Pandemic Response ( <i>rotating metrics</i> ): How are non-COVID outcomes impacted by COVID-19? And is the impact the same in all populations? Are preventive services and access to care equitable?	Excess deaths Maternal and Child Health Indicators (pre/antenatal, CLPPP) Substance use disorder services Health Screening (HIV, STD, Noncommunicable Diseases)

# Key Messages

## SARS-CoV-2 Testing

- Among neighborhood testing sites, the number of tests conducted is increasing since the last presentation
- In past 4 weeks, positivity has plateaued for most reported racial and ethnic groups

## SARS-CoV-2 Spread

- State of Michigan is at **high** transmission level and rising. CDC recommends everyone mask in crowded indoor settings regardless of vaccine status
- Cases per million are increasing for all reported races and ethnicities and is highest for American Indian/Alaskan Native
- In the past 30 days, 21% (↓1%) of race data and 26% (↓1%) ethnicity data was either missing or reported as unknown
- Distribution of cases during the delta surge varies by race with Whites seeing the highest rates across the state

## COVID-19 Severity

- In past 28 days, American Indian/Alaskan Native, Native Hawaiian/Pacific Islander, and Other Race have been flagged as having more than their expected share of cases, hospitalizations, and deaths
- Deaths per million are increasing for most racial/ethnic groups

## Access to COVID-19 Services

- In September, percent of cases quarantining as symptom onset and percent of cases with known exposure source are returned to pre-May levels
- Vaccine initiation coverage for those 12 and older was highest among those of Asian, Native Hawaiian or Pacific Islander Race (55.4%), followed by Non-Hispanic (NH) American Indian (53.2%), Hispanic (50.9%) ethnicity, NH White (48.4%), and NH Black or African American (38.2%)
- Levels of vaccine coverage by are lower than the state average in Berrien, Calhoun, Genesee, Muskegon, Saginaw, and Detroit City

## Pandemic Response: COVID Mitigation for School Aged Children

- School-aged children continue to see the largest growth in cases, and outbreaks in schools are rapidly increasing in Michigan
- To protect children and keep them in school, we should maximize all prevention strategies: vaccination, masking, appropriate physical distancing measures (e.g., cohorts and pods), provide appropriate testing (e.g., rapid antigen testing), proper ventilation in classrooms, and effective case investigation/tracing
- The number of school districts with mask policies and the number of students protected by school districts with mask policies continues to increase

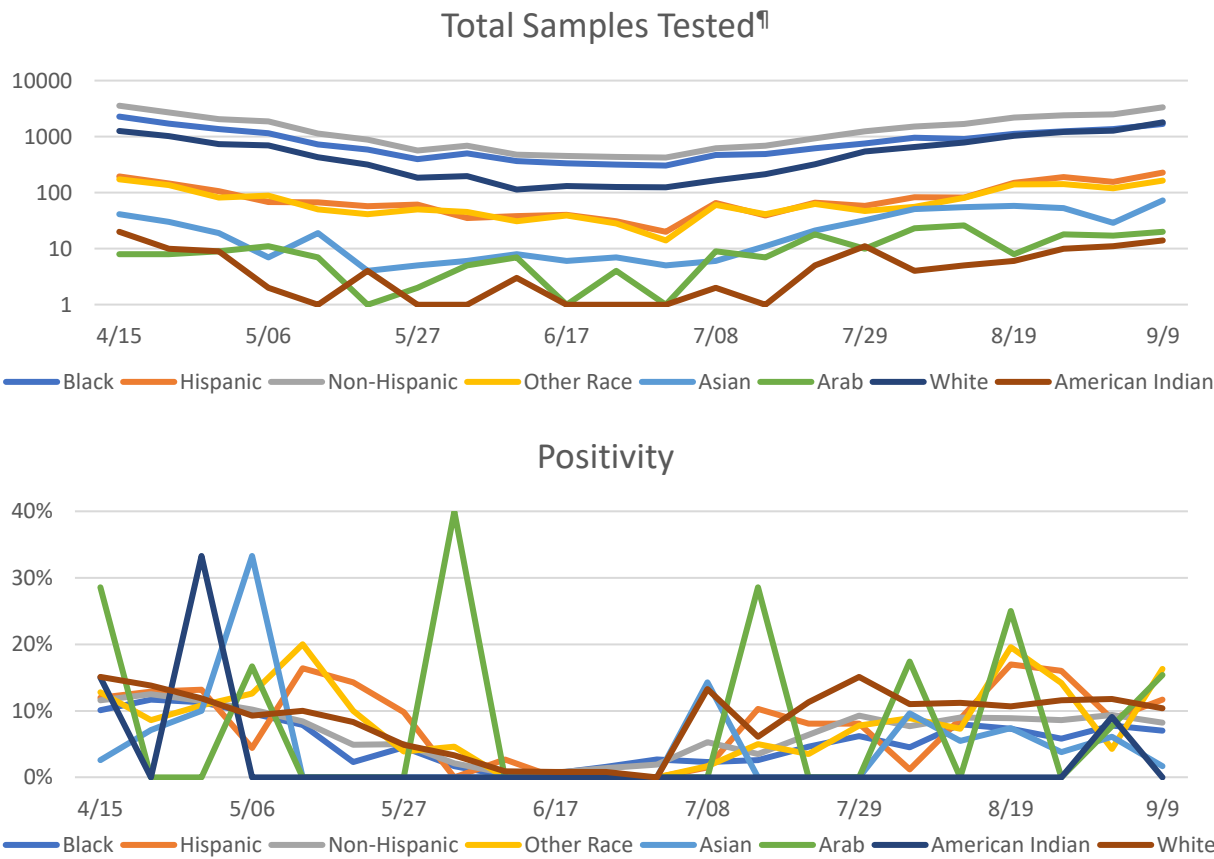
# Testing by Race and Ethnicity (Sentinel Sites)

## Cumulative Neighborhood Testing Demographics (22 sites)

Percent Tested		% Positive (9/2-9/15)	
Race*			
1%	Asian	3%	Asian Positivity
< 1%	American Indian or Alaskan Native	0%	American Indian or Alaskan Native Positivity
38%	Black/African American	7%	Black/African American Positivity
3%	Other Race	7%	Other Race Positivity
31%	White	11%	White Positivity
Ethnicity*			
4%	Hispanic/Latino	10%	Hispanic/Latino Positivity
68%	Non-Hispanic/Latino	9%	Non-Hispanic/Latino Positivity
< 1%	Arab	12%	Arab Positivity †

\* May not add to 100% due to those who responded unknown or preferred not to answer  
† Only 25 individuals with Arab ethnicity were tested for COVID in this 2-week period

## Time Trends



<sup>¶</sup> Note: axis is on the logarithmic scale to better view trends over time for smaller populations

# NxGen Testing by Race and Ethnicity

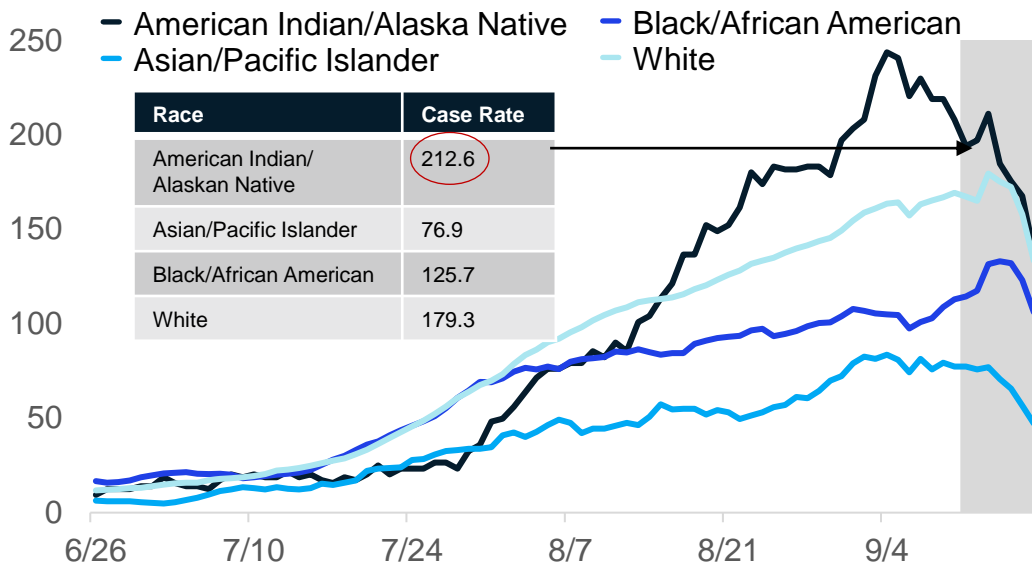
## 79 testing sites, 125,596 cumulative samples tested

Percent Tested		Percent Positive (8/15-8/28)	
Race*			
1%	Asian	5%	Asian Positivity
< 1%	American Indian or Alaskan Native	13%	American Indian or Alaskan Native Positivity
6%	Black/ African American	8%	Black/African American Positivity
< 1%	Native Hawaiian/Pacific Islander	67%	Native Hawaiian/Pacific Islander Positivity
2%	Other Race	8%	Other Race Positivity
62%	White	12%	White Positivity
Ethnicity*			
3%	Hispanic/Latino	5%	Hispanic/Latino Positivity
38%	Non-Hispanic/Latino	8%	Non-Hispanic/Latino Positivity
< 1%	Jewish	0%	Jewish Positivity

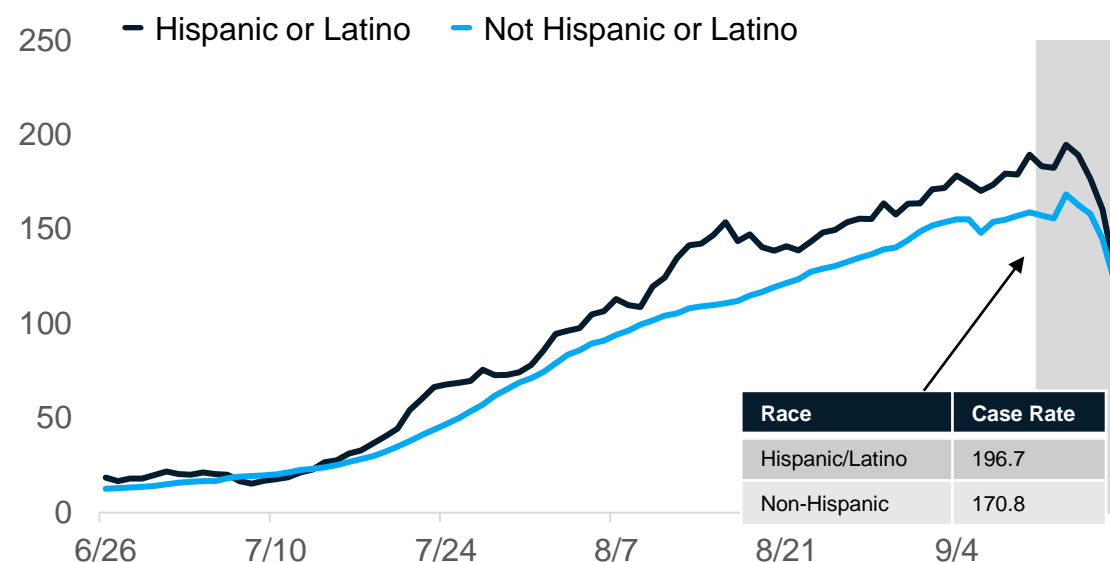
\* May not add to 100% due to those who responded unknown or did not to answer  
 NT – No tested conducted during this reporting period

# Racial and Ethnic Case Rates are Increasing

Daily new confirmed and probable cases per million (7 day rolling average) by race category



Daily new confirmed and probable cases per million (7 day rolling average) by ethnicity category

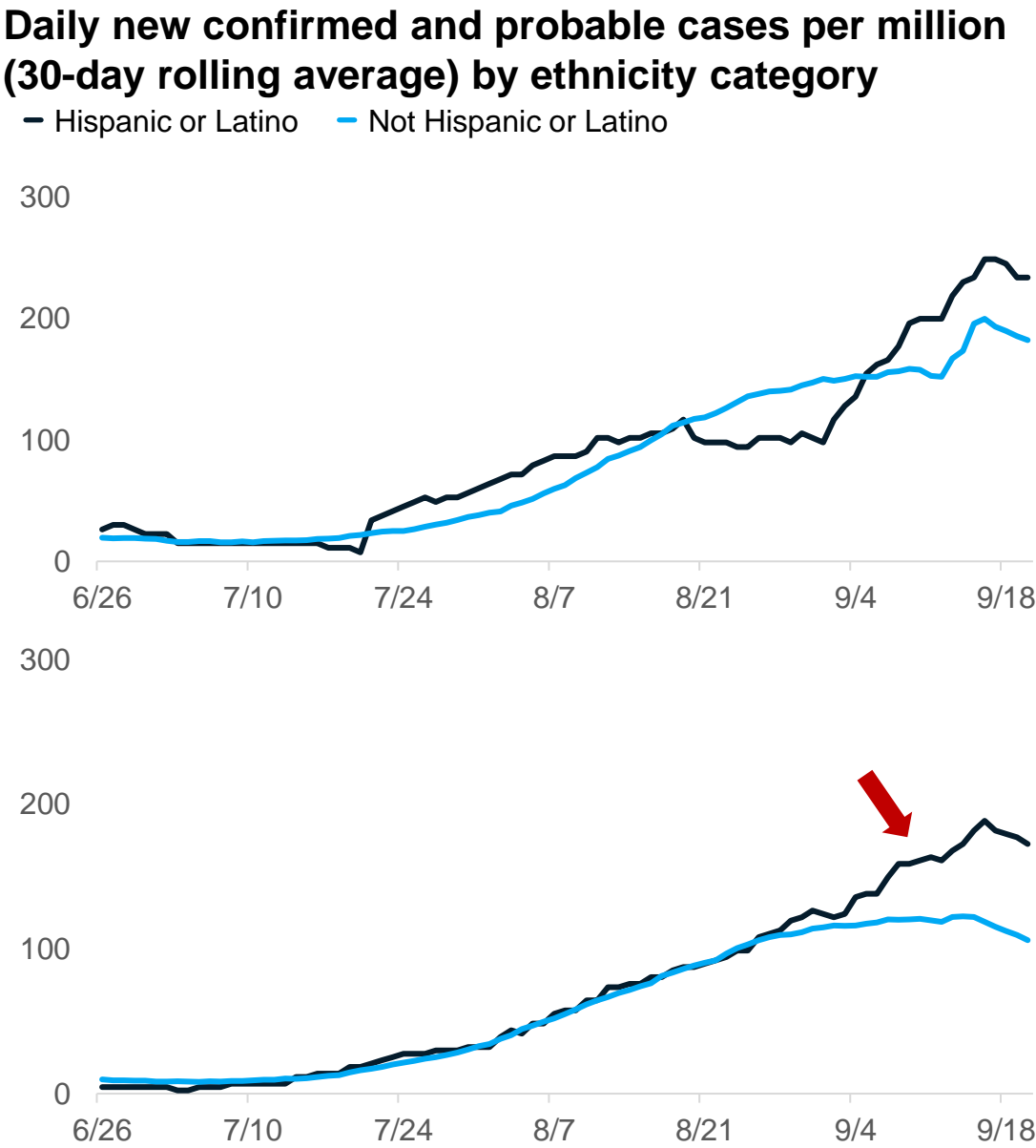
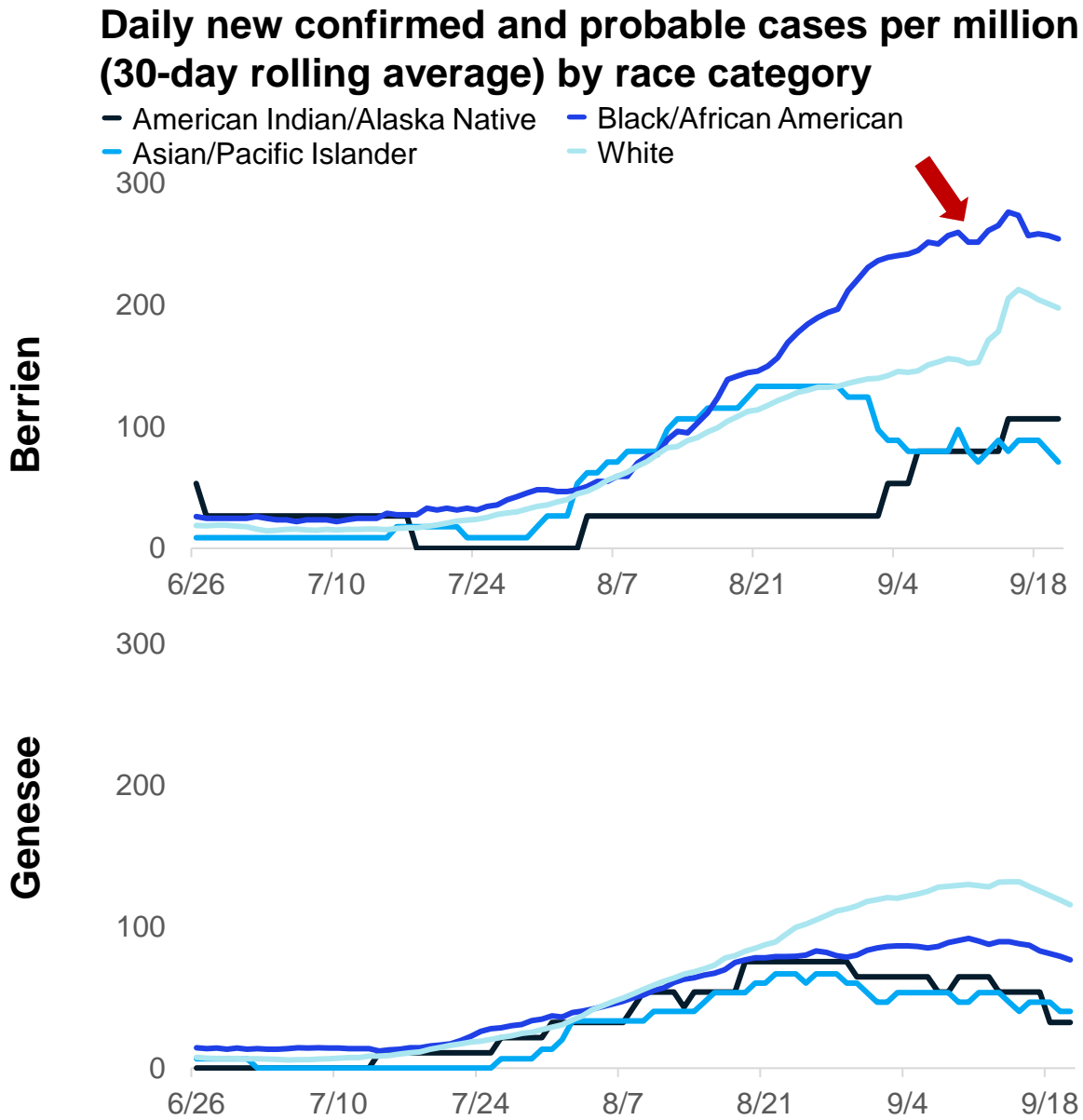


## Updates since last week:

State Case Rate (as of 9/20): 234.4

- Cases per million are increasing for all races and ethnicities
- The percent of cases with missing race/ethnicity data, and those multiracial or other impacting the case rates shown here
- American Indian/Alaskan Native have the highest case rates
- In the past 30 days, 21% (↓1%) of race data and 26% (↓1%) ethnicity data was either missing or reported as unknown

# Average daily new cases per million people by race and ethnicity



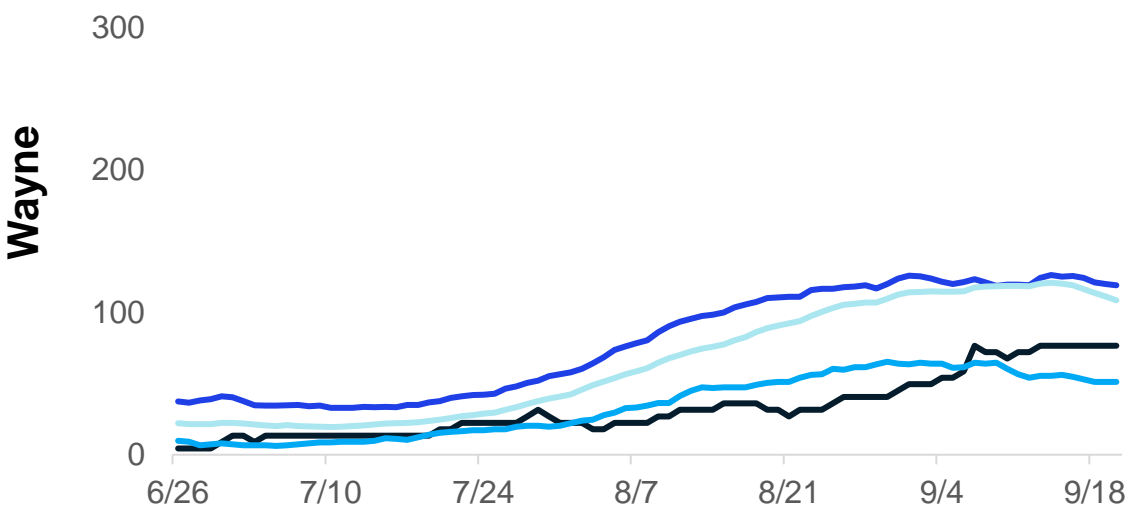
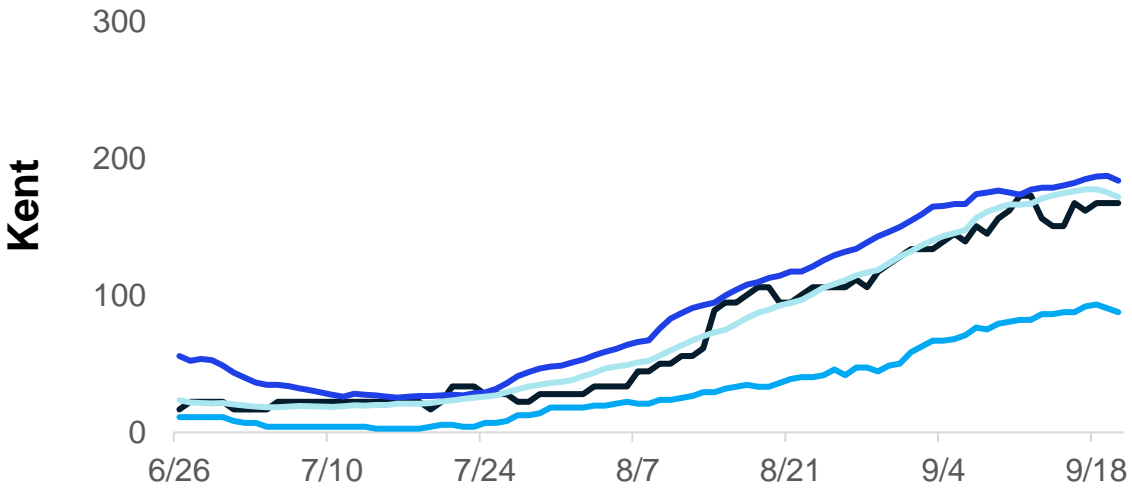
Note: Case information sourced from MDHHS and reflects onset date of confirmed and probable cases.  
Source: MDHHS – Michigan Disease Surveillance System



# Average daily new cases per million people by race and ethnicity

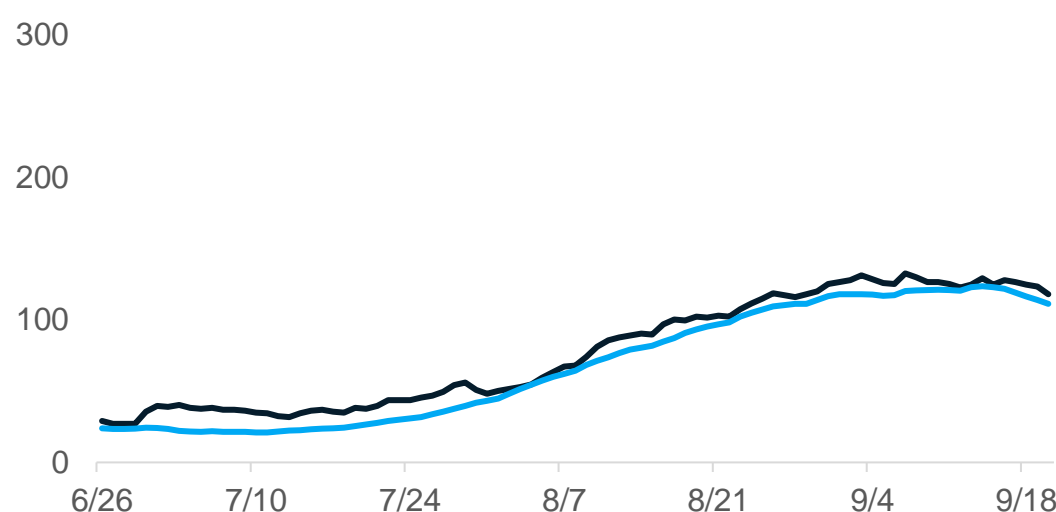
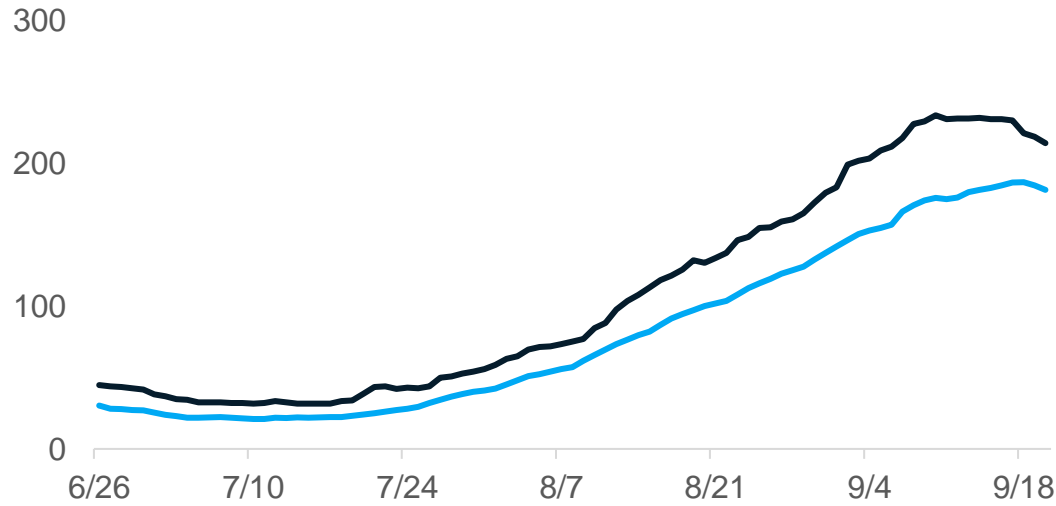
Daily new confirmed and probable cases per million (30-day rolling average) by race category

- American Indian/Alaska Native
- Black/African American
- Asian/Pacific Islander
- White



Daily new confirmed and probable cases per million (30-day rolling average) by ethnicity category

- Hispanic or Latino
- Not Hispanic or Latino



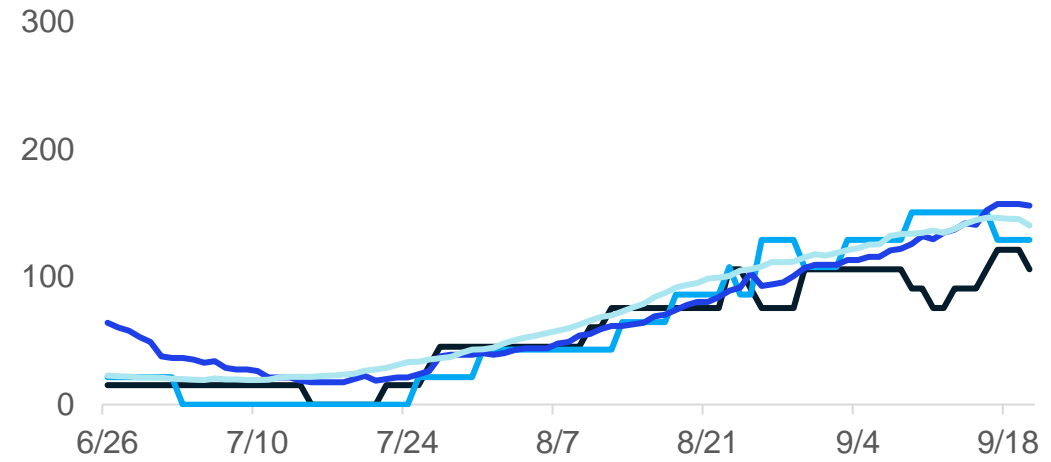
Note: Case information sourced from MDHHS and reflects onset date of confirmed and probable cases.  
Source: MDHHS – Michigan Disease Surveillance System

# Average daily new cases per million people by race and ethnicity

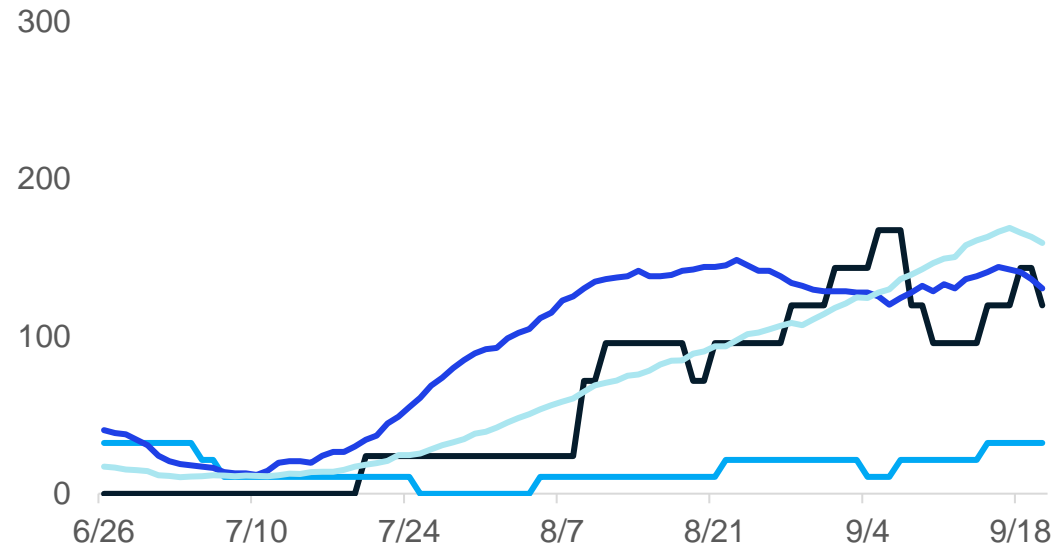
Daily new confirmed and probable cases per million (30-day rolling average) by race category

- American Indian/Alaska Native
- Black/African American
- Asian/Pacific Islander
- White

Muskegon

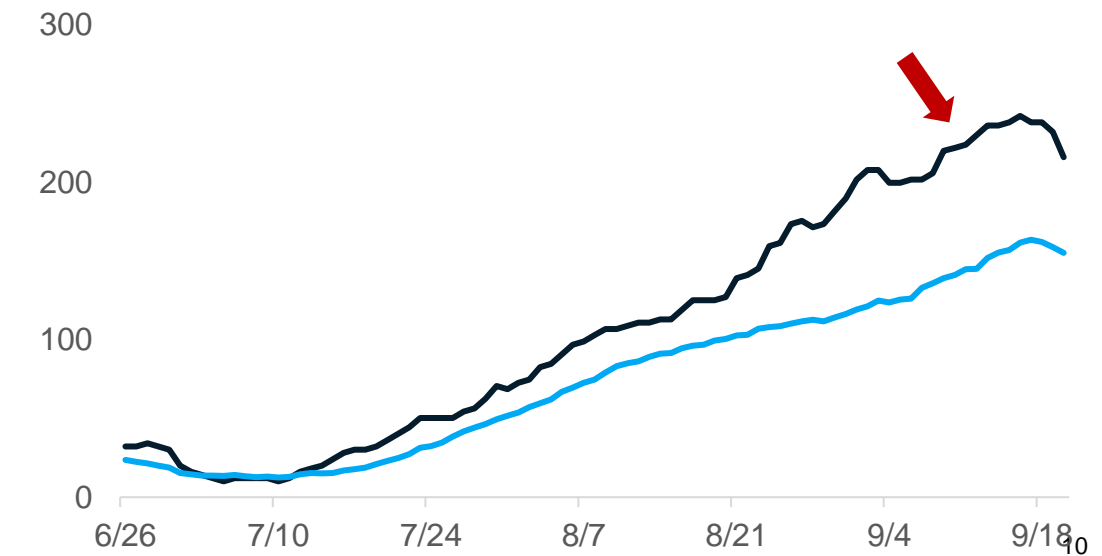
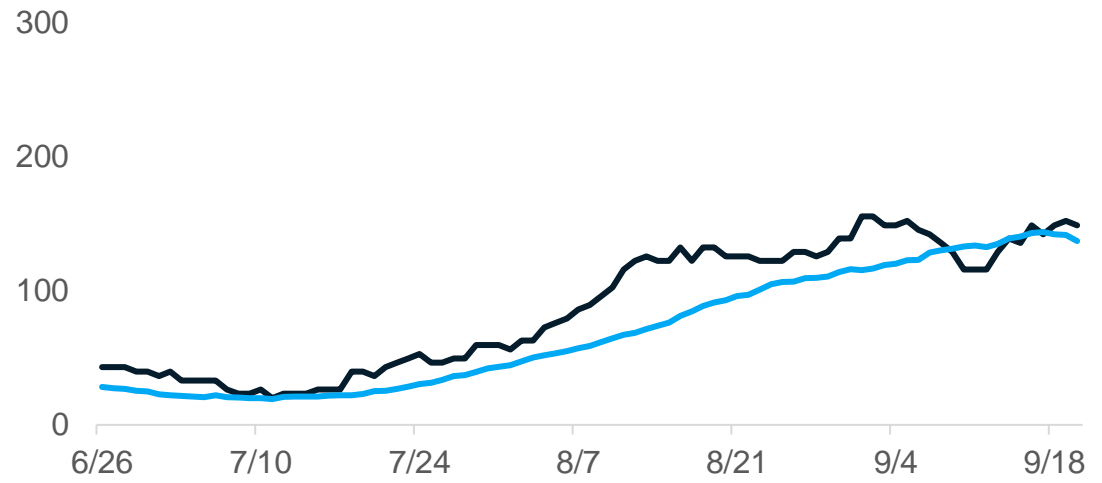


Saginaw



Daily new confirmed and probable cases per million (30-day rolling average) by ethnicity category

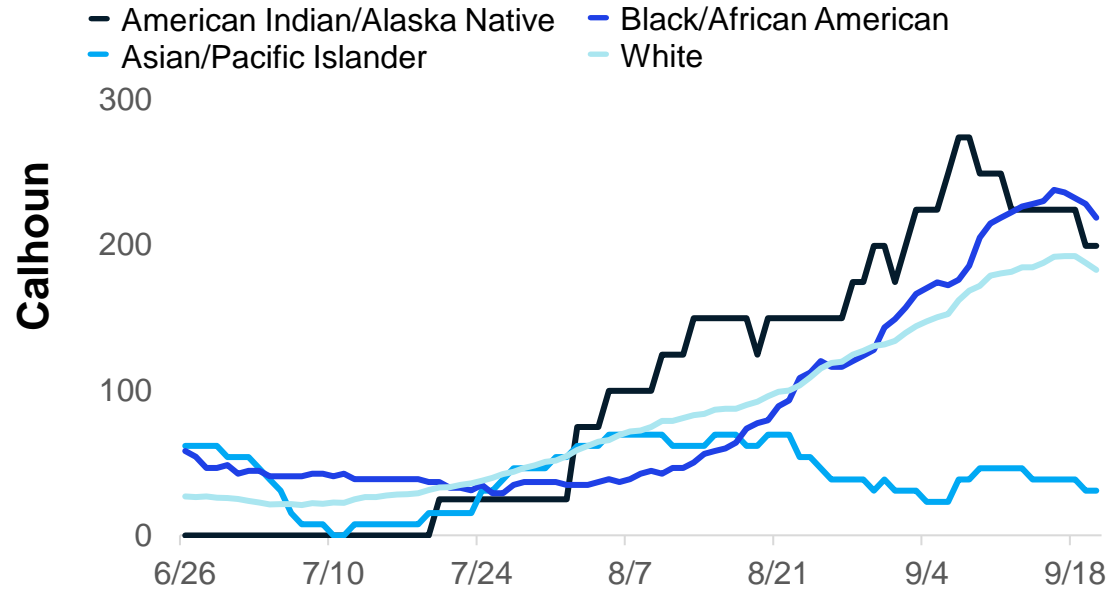
- Hispanic or Latino
- Not Hispanic or Latino



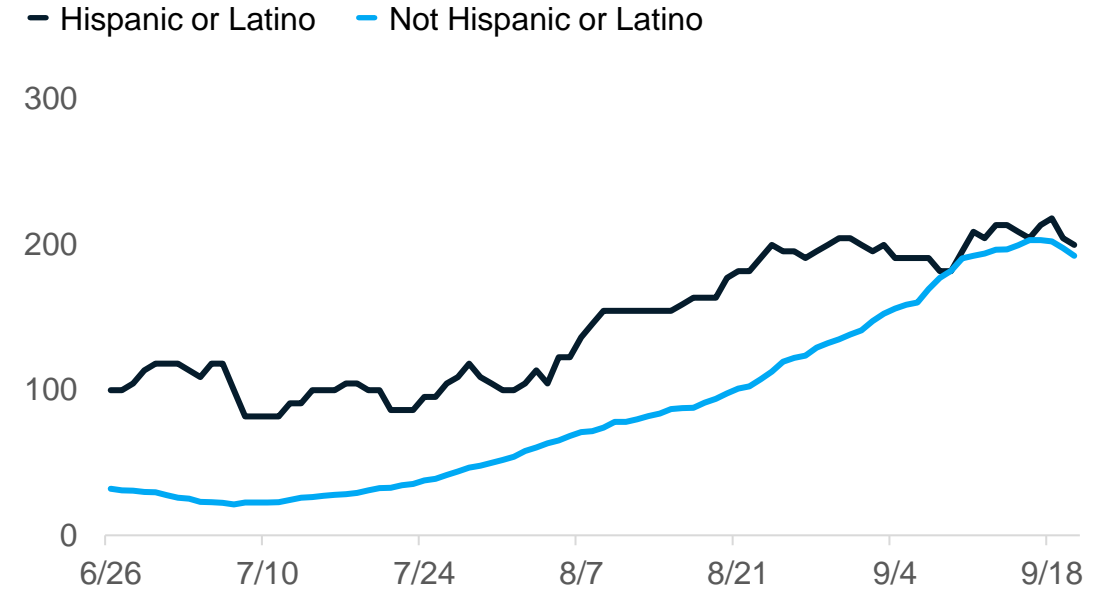
Note: Case information sourced from MDHHS and reflects onset date of confirmed and probable cases.  
Source: MDHHS – Michigan Disease Surveillance System

# Average daily new cases per million people by race and ethnicity

Daily new confirmed and probable cases per million (30-day rolling average) by race category

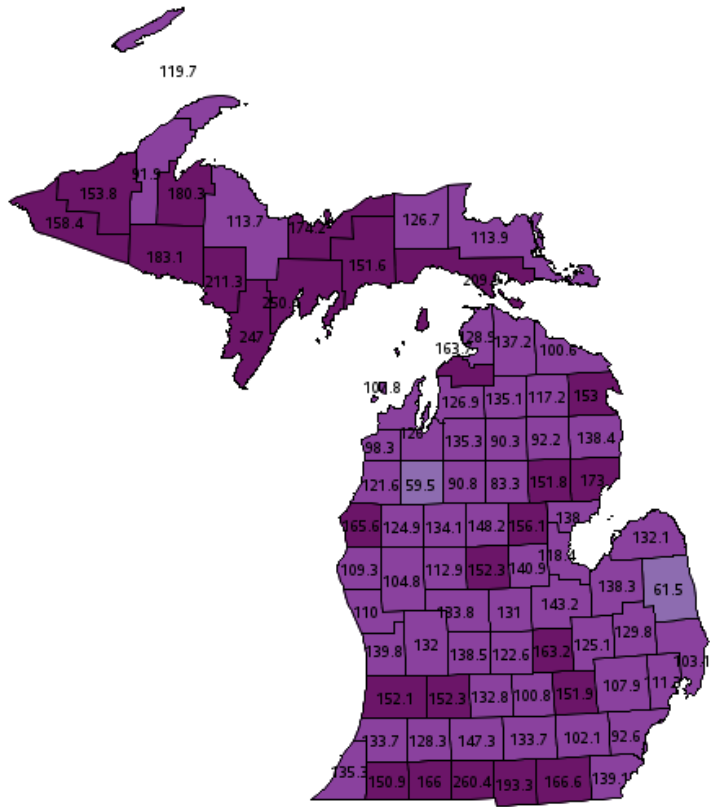


Daily new confirmed and probable cases per million (30-day rolling average) by ethnicity category

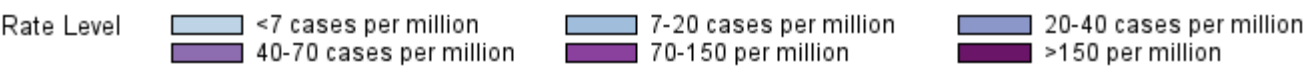


# Average daily new cases per million people by race and county, Jul 1 – Sep 13, 2021 (Delta Surge)

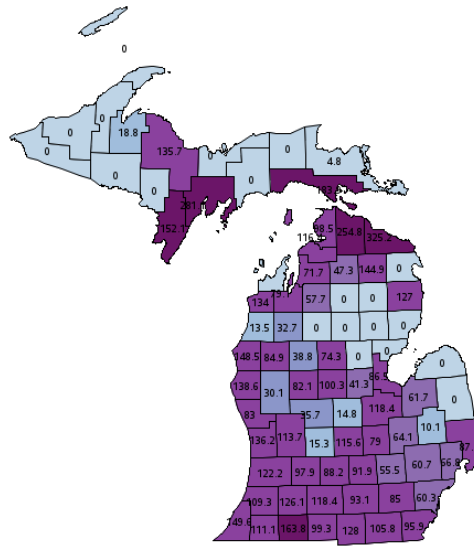
Avg. Daily Case Rates by County – All Races



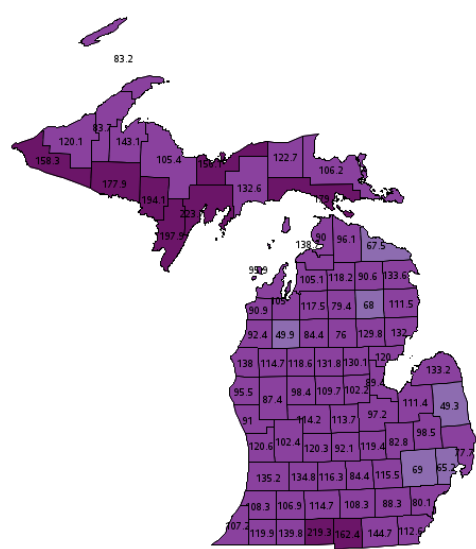
NOTE: Cases not assigned to a county (e.g., corrections, Out-of-State, Unknown) are excluded from this map  
NOTE: Detroit cases included as part of Wayne County  
NOTE: All Races include American Indian, Asian, Blacks, and Whites but also those Missing, Unknown or Refused



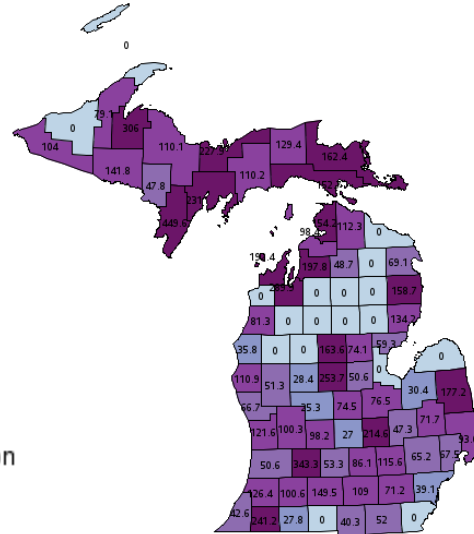
Black/African American



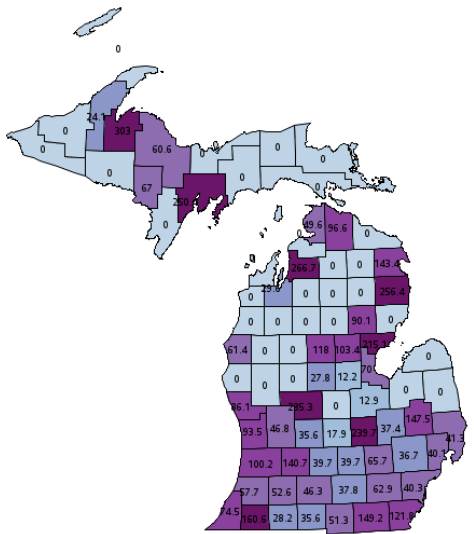
White



American Indian/Alaskan Native



Asian/Pacific Islander



Note: Case information sourced from MDHHS and reflects onset date of confirmed and probable cases.  
Source: MDHHS – Michigan Disease Surveillance System

# Prior 28 Days Metrics By Race (Aug 17, 2021 – Sep 14, 2021)

RACE	% OF CASES	% OF DEATHS	% OF HOSPITALIZED CASES	CASES PER MIL.	DEATHS PER MIL.	HOSPITALIZED CASES PER MIL.
Known	81.3%	96.5%	92.9%	4,613.3	57.9	147.9
Unknown	18.7%	3.5%	7.1%	--	--	--
Any	--	--	--	5,677.3	60.0	159.2

KNOWN RACE ONLY	% OF POP	% OF CASES	% OF DEATHS	% OF HOSPITALIZED CASES	CASES PER MIL.	DEATHS PER MIL.	HOSPITALIZED CASES PER MIL.
American Indian / Alaskan Native	0.5%	1.2%	1.0%	0.9%	9,993.4	112.7	244.2
Asian	3.1%	1.5%	0.9%	1.2%	2,270.0	16.4	55.8
Black / African American	13.8%	10.0%	14.6%	13.6%	3,350.9	61.0	145.4
Hawaiian / Pacific Islander	< 0.1%	0.1%	0.2%	0.1%	15,441.4	335.6	335.6
Multiple Race	2.8%	3.0%	1.7%	1.8%	4,811.1	35.2	91.6
Other	1.2%	5.6%	2.4%	3.7%	21,445.1	117.5	453.2
White	78.5%	78.7%	79.2%	78.9%	4,622.1	58.4	148.6


disparity present ⓘ

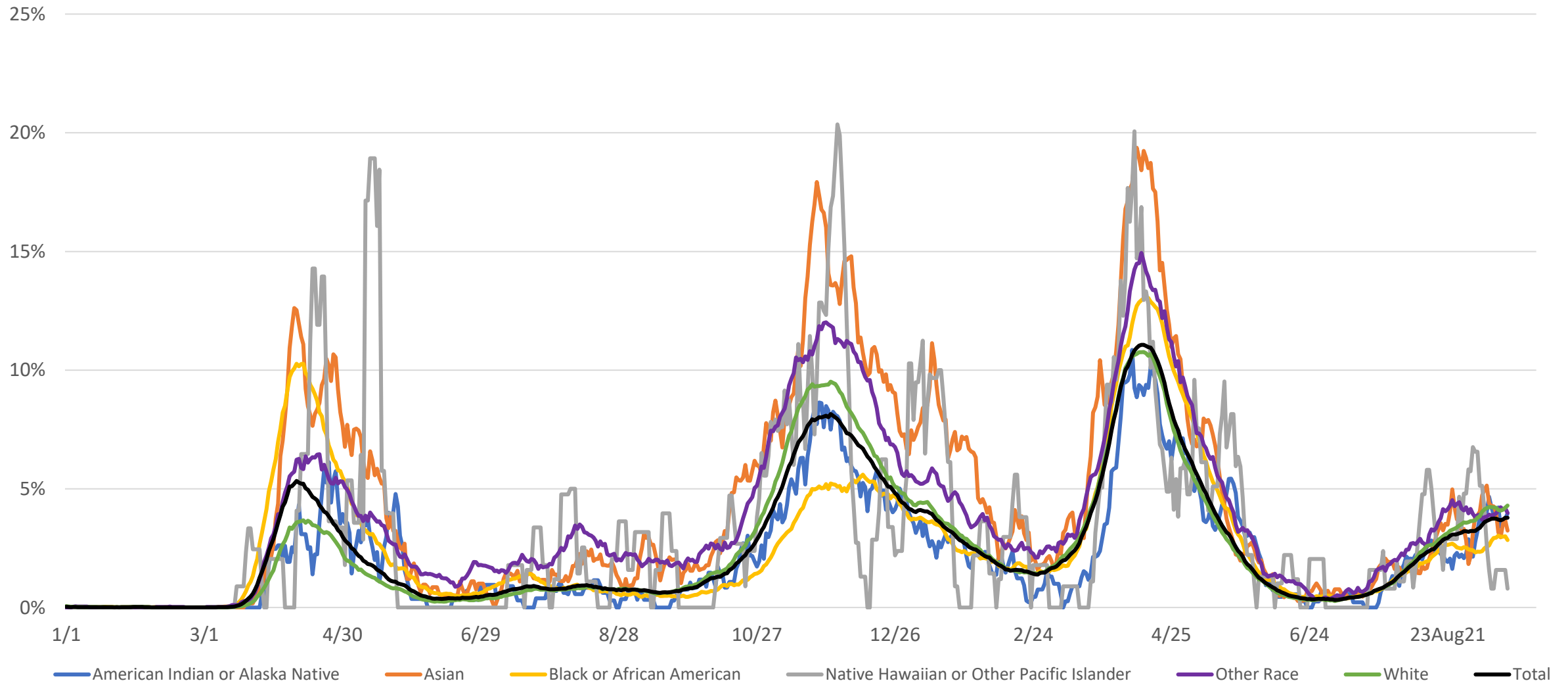
disparity present but based on small absolute numbers

# Prior 28 Days Metrics By Ethnicity (Aug 17, 2021 – Sep 14, 2021)

ETHNICITY (HISPANIC) ⚡	% OF CASES ⚡		% OF DEATHS ⚡	% OF HOSPITALIZED CASES ⚡	CASES PER MIL. ⚡	DEATHS PER MIL. ⚡	HOSPITALIZED CASES PER MIL. ⚡
Known ①	76.6%		93.1%	91.2%	4,351.3	55.9	145.3
Unknown ①	23.4%		6.9%	8.8%	--	--	--
Any	--		--	--	5,677.3	60.0	159.2
KNOWN ETHNICITY ONLY ⚡	% OF POP ⚡	% OF CASES ⚡	% OF DEATHS ⚡	% OF HOSPITALIZED CASES ⚡	CASES PER MIL. ⚡	DEATHS PER MIL. ⚡	HOSPITALIZED CASES PER MIL. ⚡
Hispanic or Latino	5.0%	5.9%	2.5%	5.4%	5,169.7	28.1	156.6
Not Hispanic or Latino	95.0%	94.1%	97.5%	94.6%	4,308.3	57.4	144.7

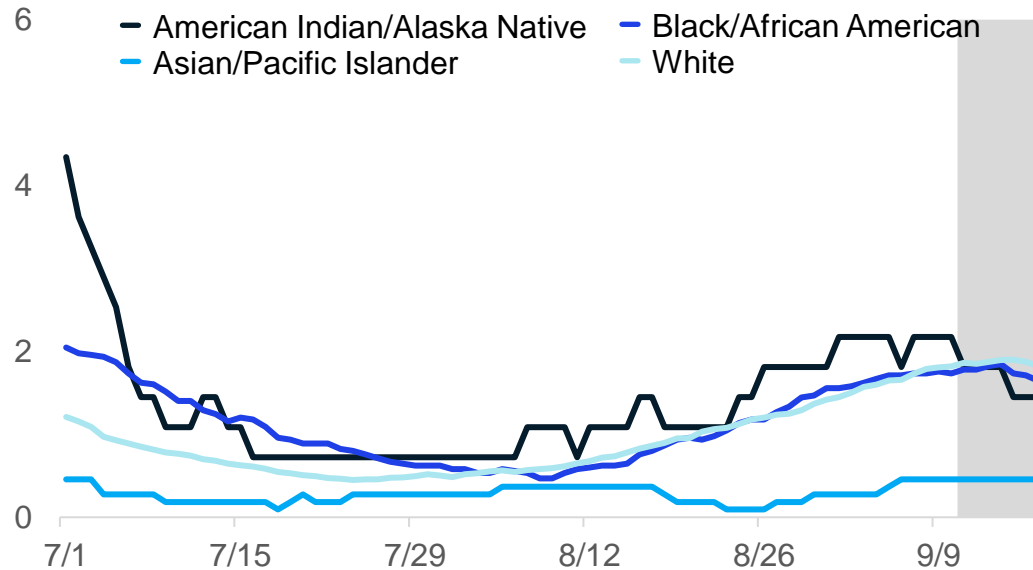
ETHNICITY (ARAB) ⚡	% OF CASES ⚡		% OF DEATHS ⚡		% OF HOSPITALIZED CASES ⚡	
Known ①	53.1%		55.2%		64.7%	
Unknown ①	46.9%		44.8%		35.3%	
Any	--		--		--	
KNOWN ETHNICITY ONLY ⚡	% OF CASES ⚡		% OF DEATHS ⚡		% OF HOSPITALIZED CASES ⚡	
Arab Ethnicity	5.0%		3.1%		3.4%	
Not Arab Ethnicity	95.0%		96.9%		96.6%	

 disparity present ①  
 Population denominators are based on Census data, which does not include Arab ethnicity information. Because we do not have denominator data for Arab ethnicity, only a limited set of metrics can be shown.

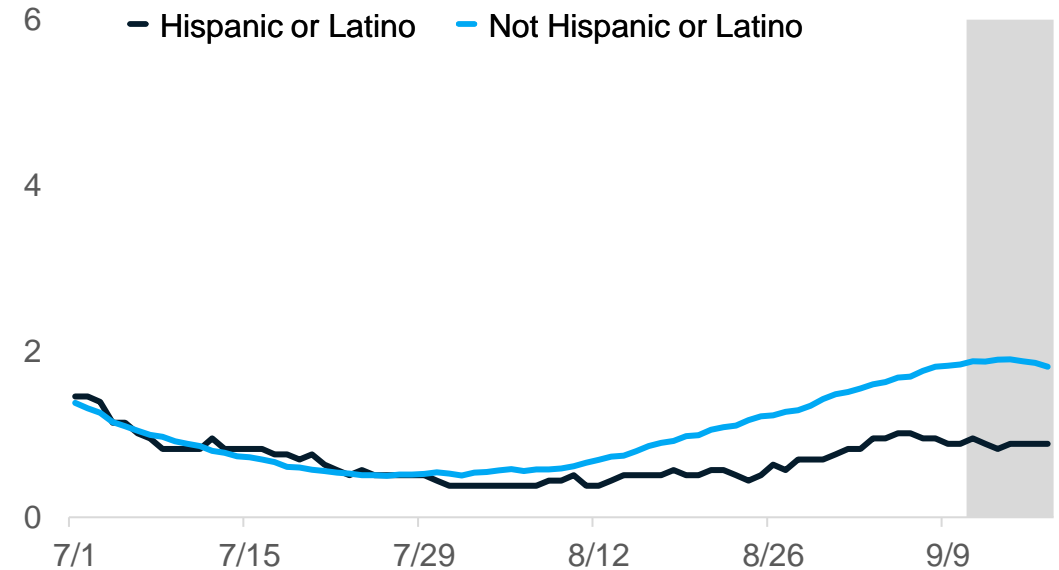


# 30-day rolling average daily deaths per million people by race and ethnicity

## Average daily deaths per million people by race



## Average daily deaths per million people by ethnicity

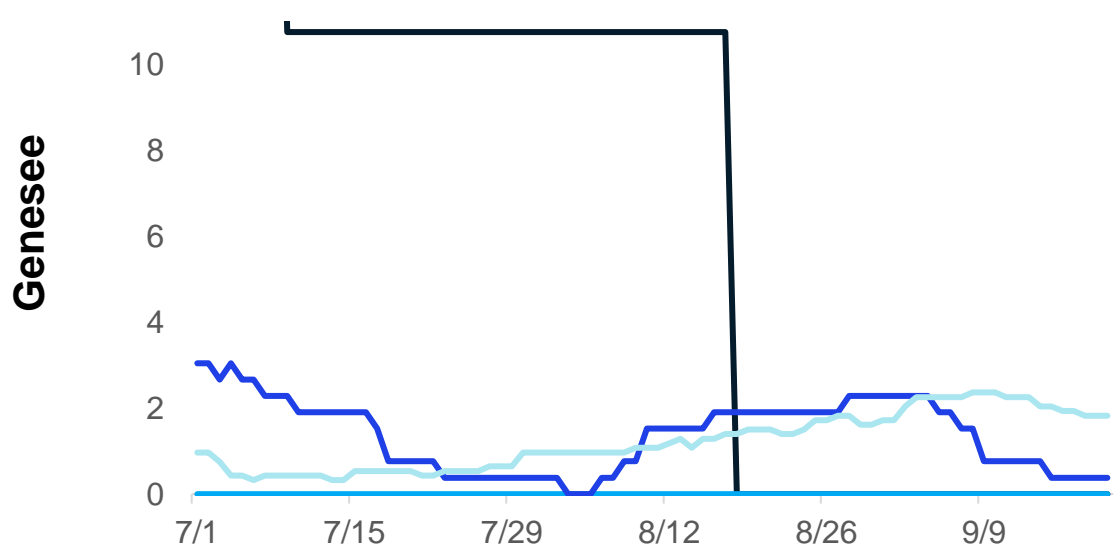
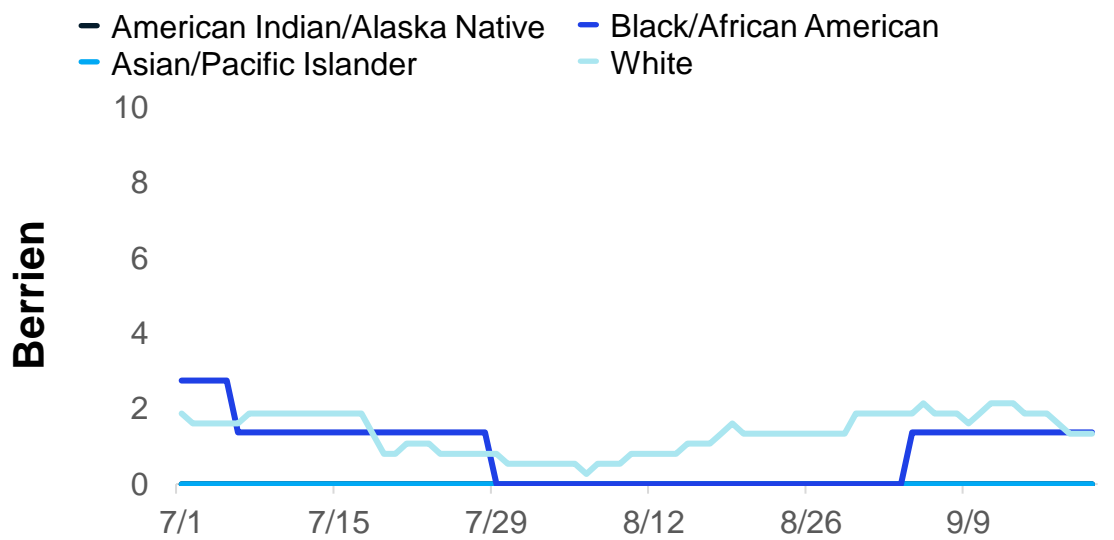


- Additional reviews of vital records death data were performed the weeks of 7/6 and 8/9 to search for race and ethnicity
- This review has resulted in an adjustment of deaths for American Indian and Alaskan Natives from previous weeks
- Deaths are increasing from most reported racial and ethnic groups

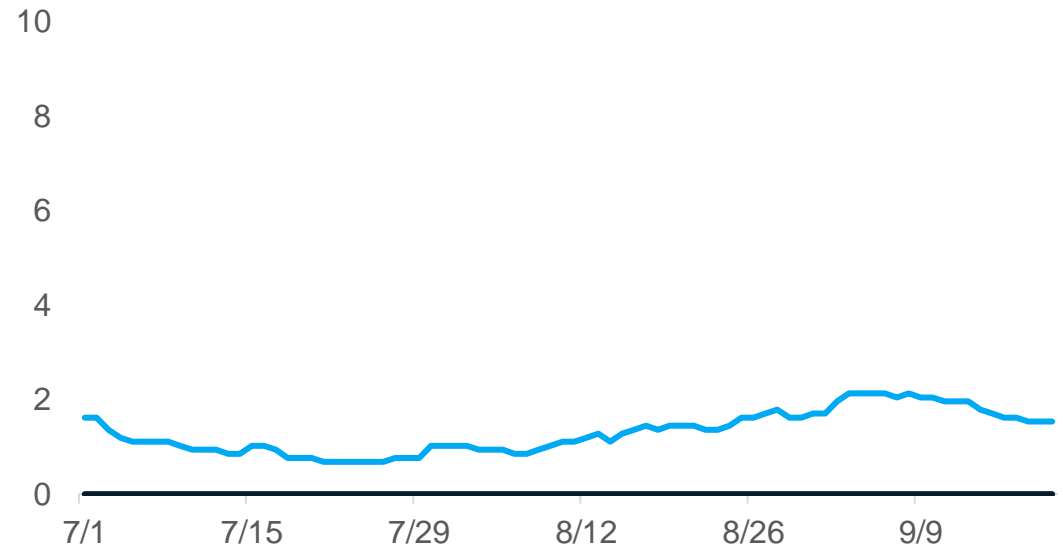
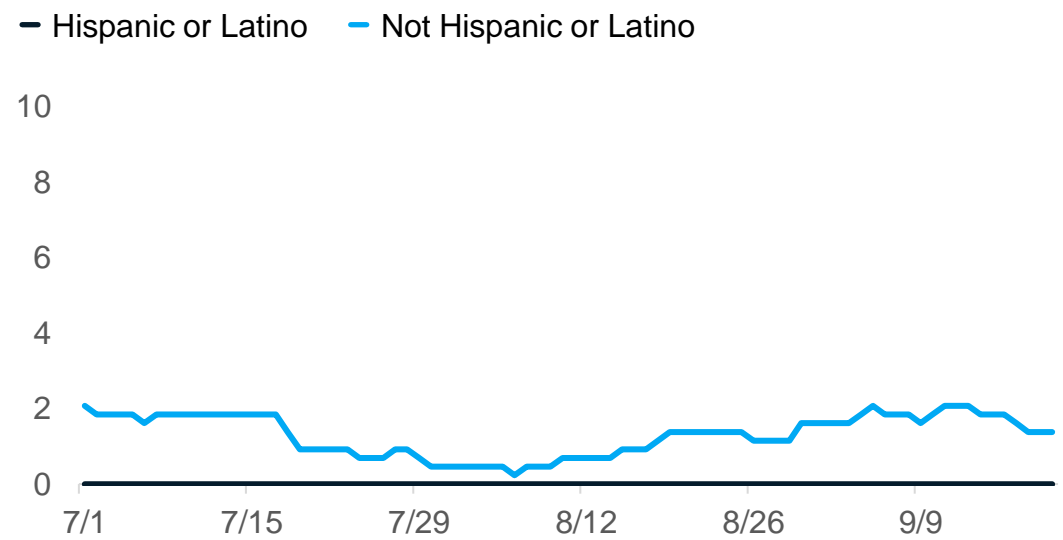


# Average deaths per million people by race and ethnicity

Deaths per million (30-day rolling average) by race



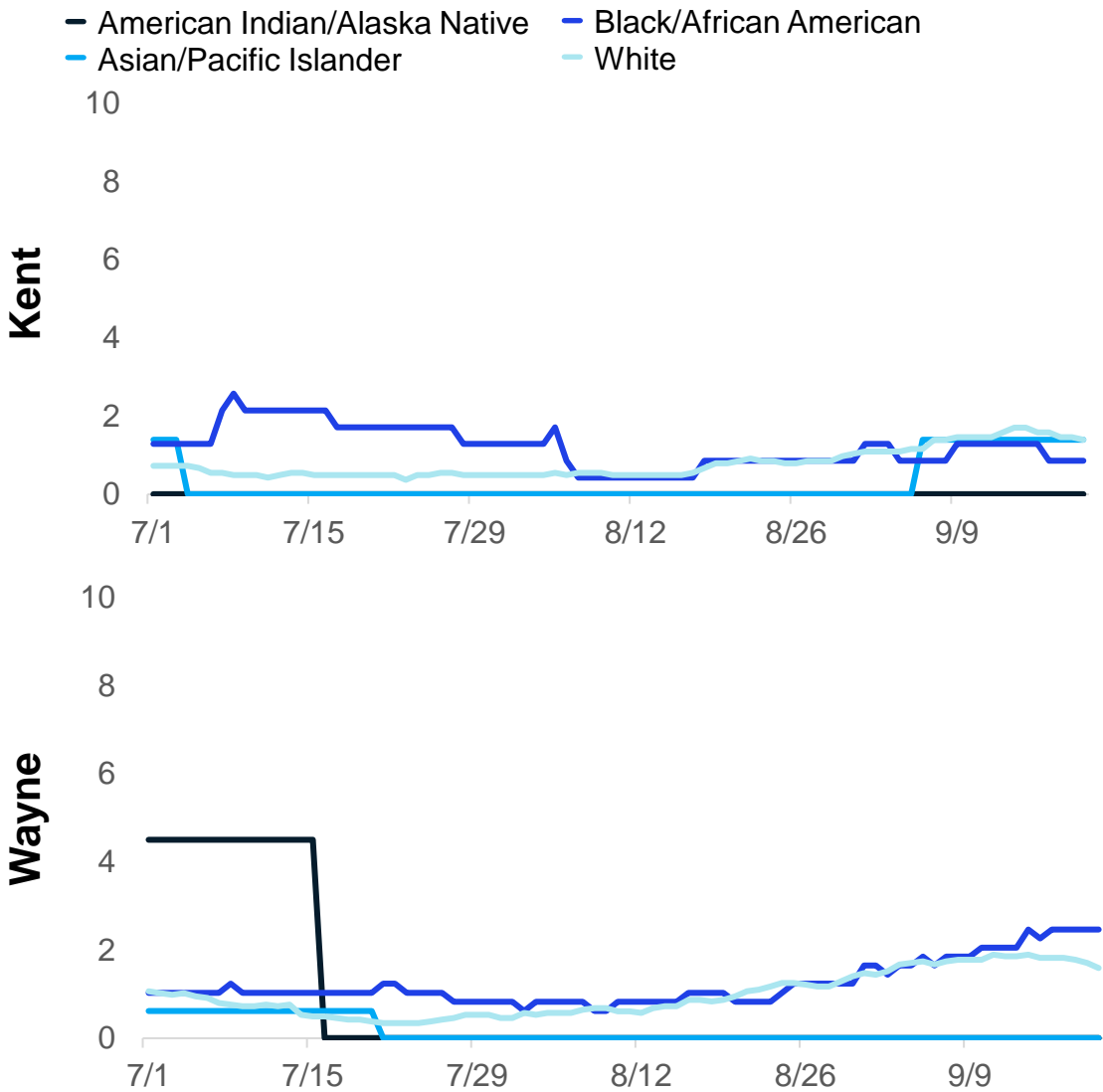
Deaths per million (30-day rolling avg) by ethnicity



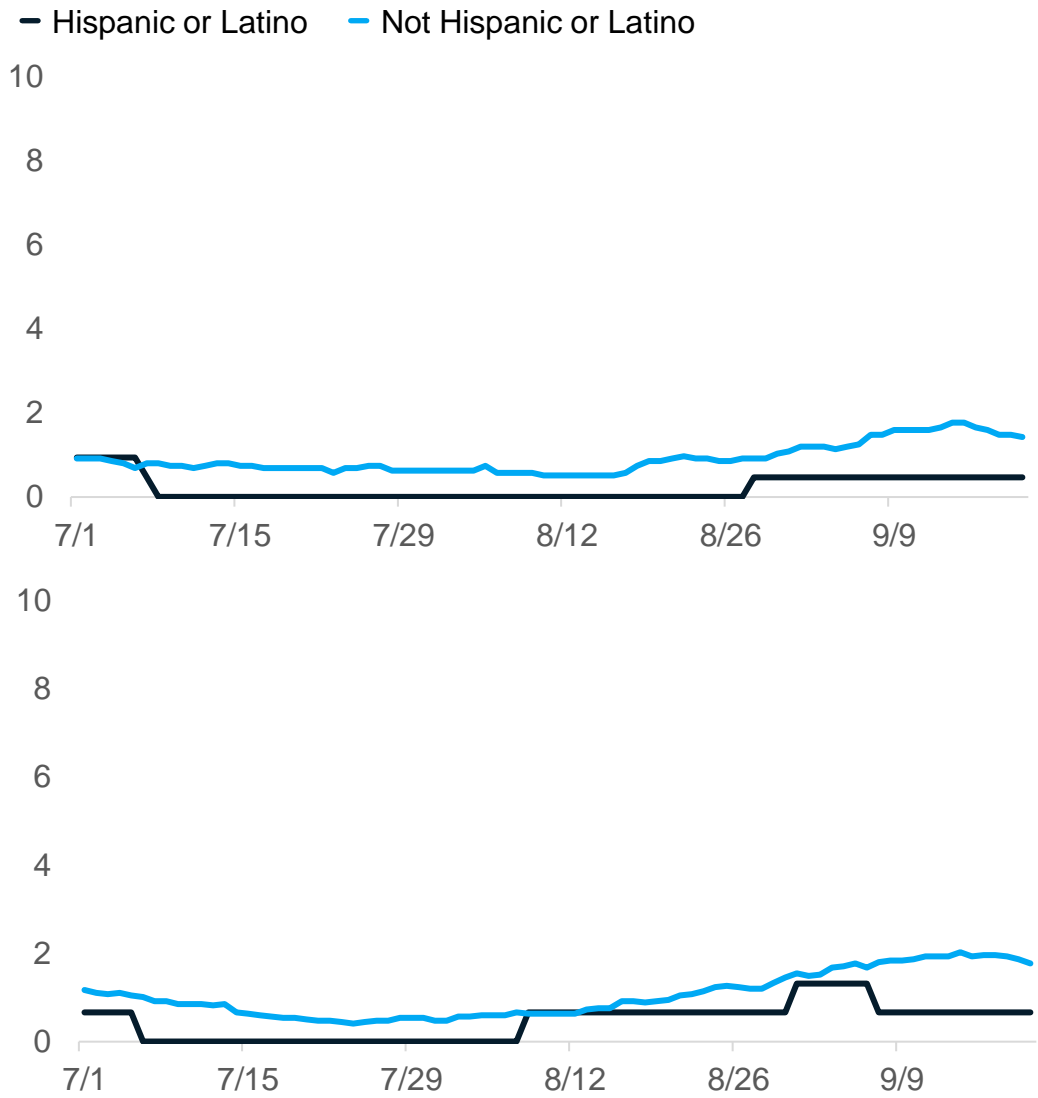
Note: Case information sourced from MDHHS and reflects date of death of confirmed and probable cases.  
Source: MDHHS – Michigan Disease Surveillance System

# Average deaths per million people by race and ethnicity

Deaths per million (30-day rolling average) by race



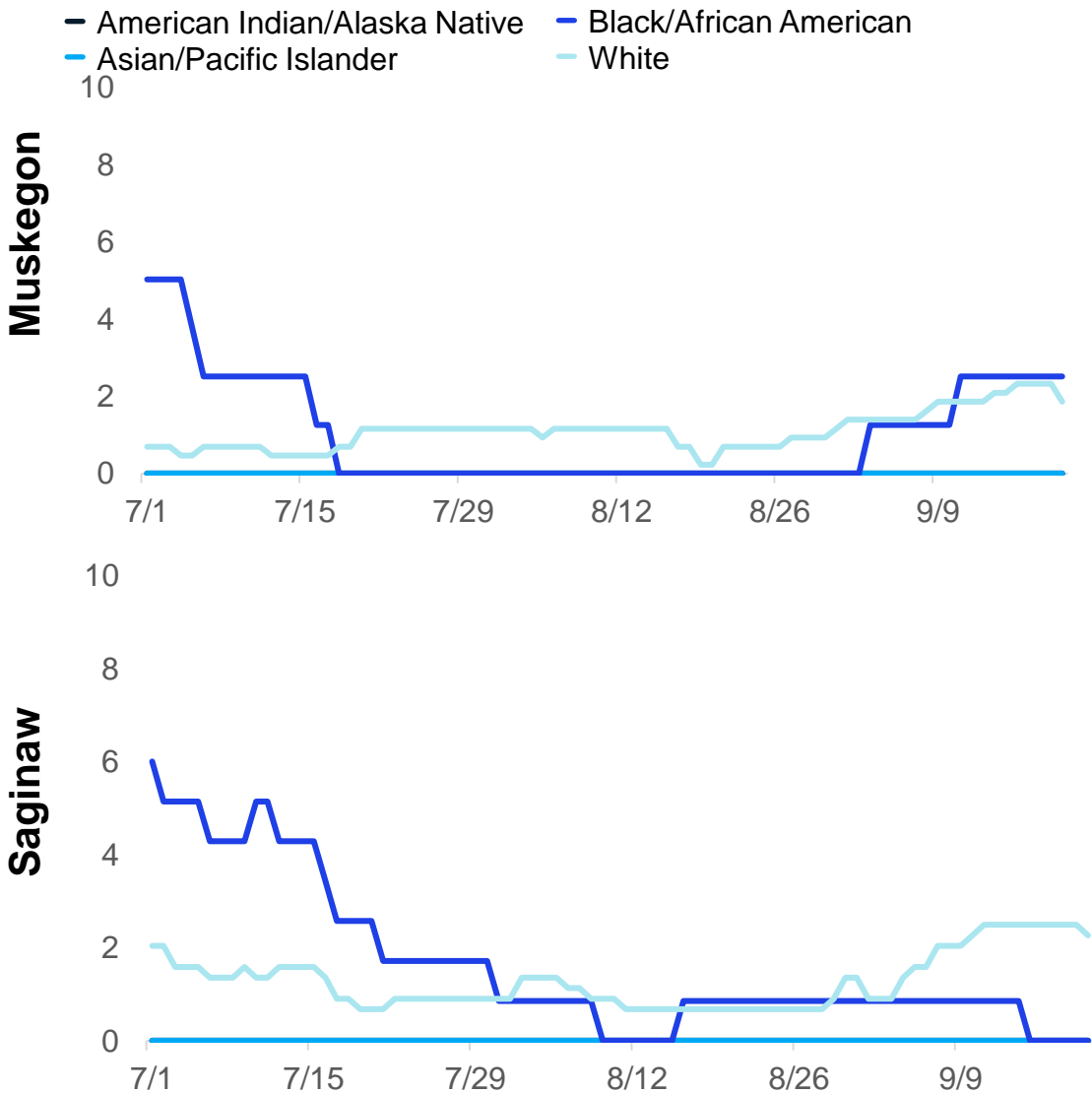
Deaths per million (30-day rolling avg) by ethnicity



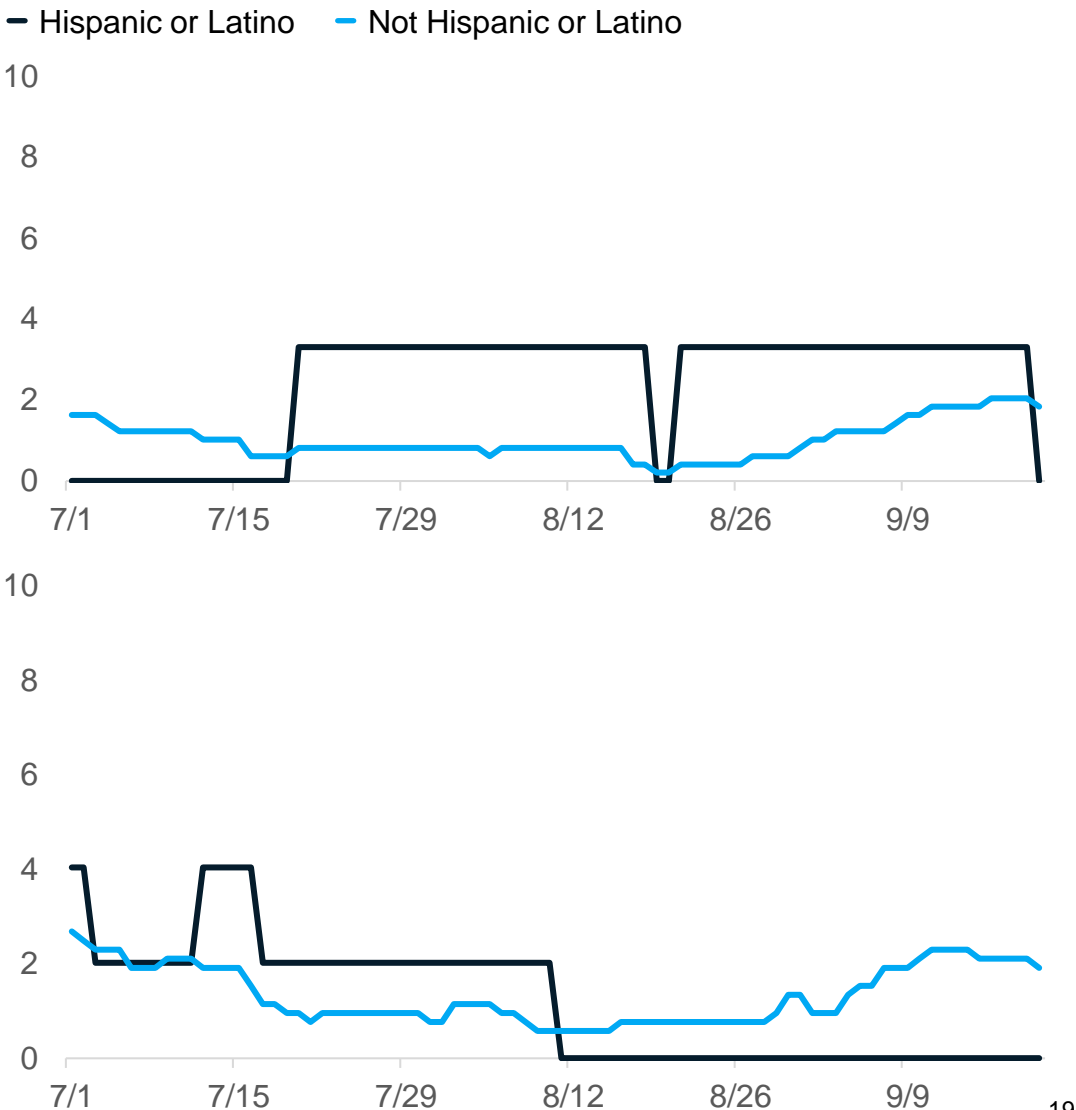
Note: Case information sourced from MDHHS and reflects date of death of confirmed and probable cases.  
Source: MDHHS – Michigan Disease Surveillance System

# Average deaths per million people by race and ethnicity

Deaths per million (30-day rolling average) by race



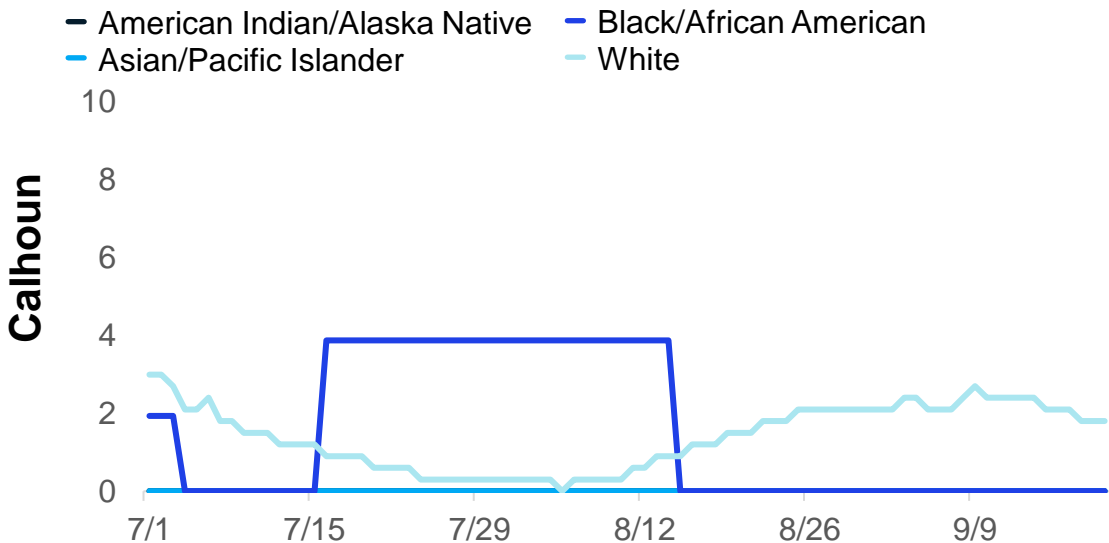
Deaths per million (30-day rolling avg) by ethnicity



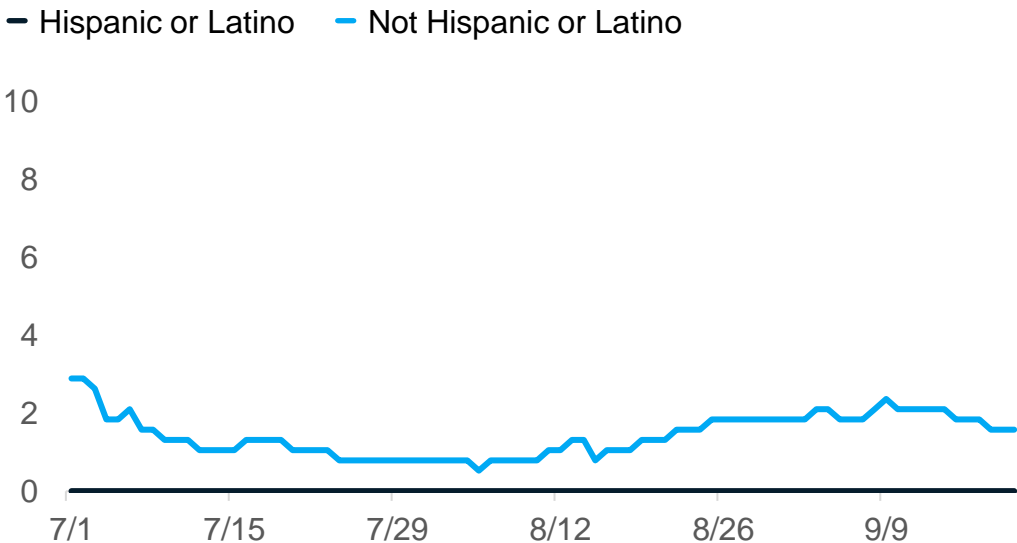
Note: Case information sourced from MDHHS and reflects date of death of confirmed and probable cases.  
Source: MDHHS – Michigan Disease Surveillance System

# Average deaths per million people by race and ethnicity

Deaths per million (30-day rolling average) by race



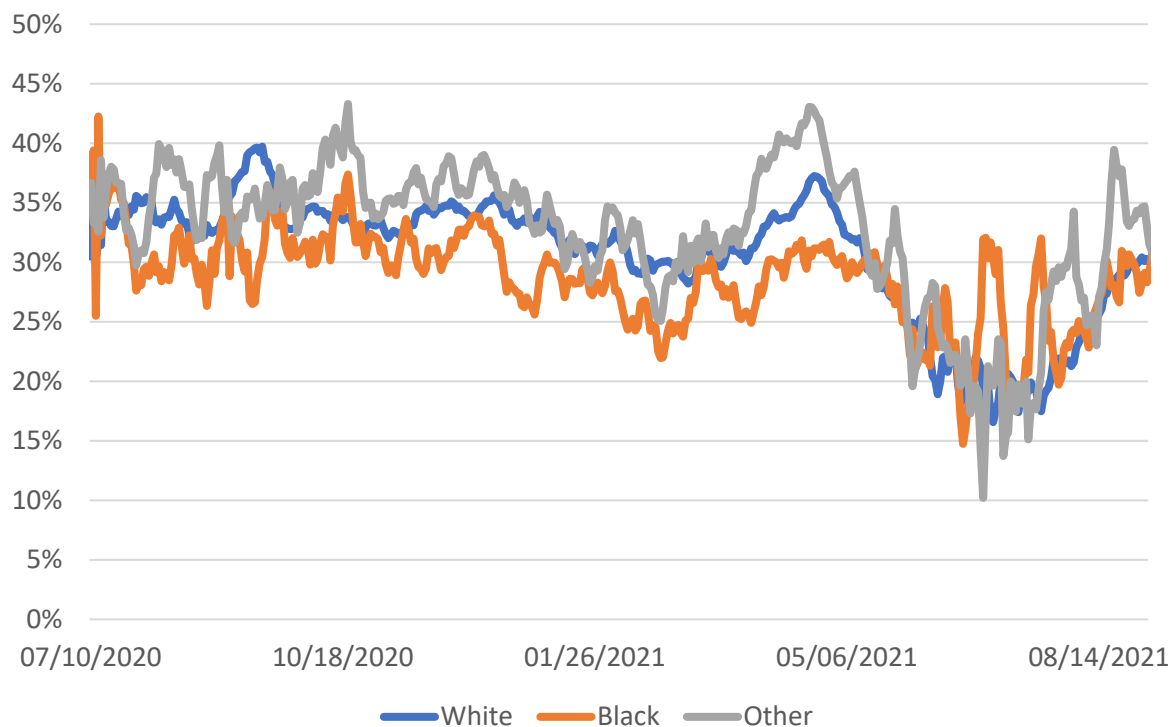
Deaths per million (30-day rolling avg) by ethnicity



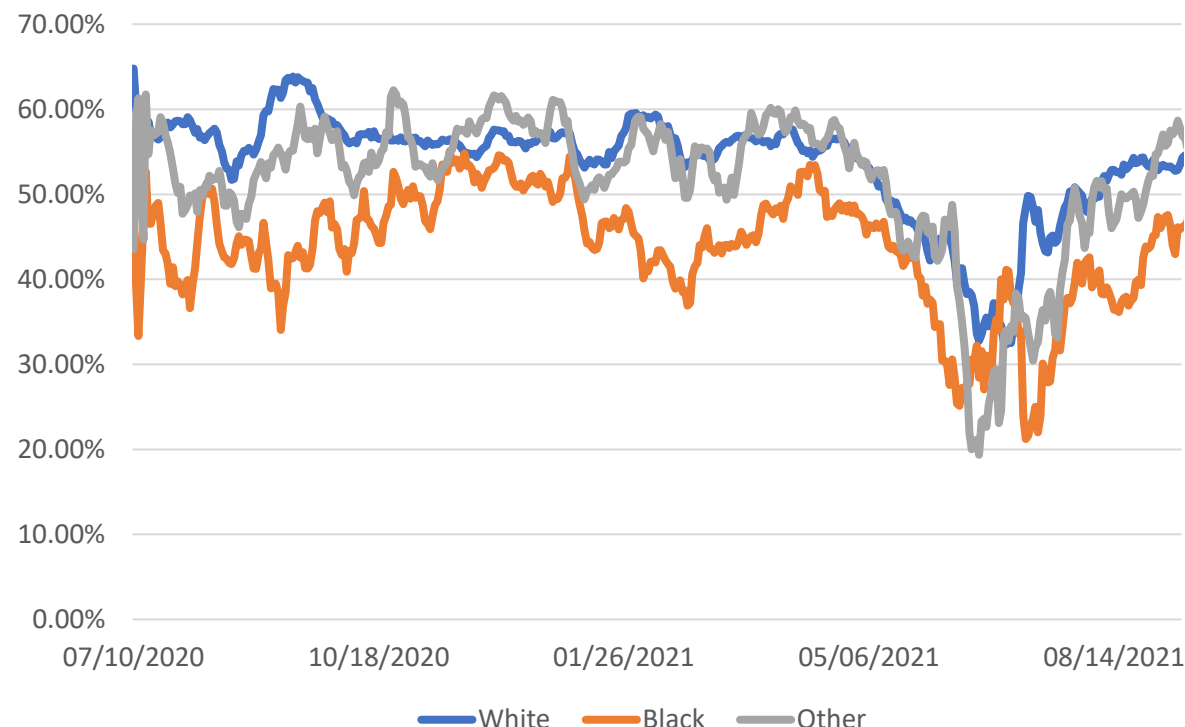
Note: Case information sourced from MDHHS and reflects date of death of confirmed and probable cases.  
Source: MDHHS – Michigan Disease Surveillance System

# COVID-19 Case Investigation Metrics

% of Cases Quarantining at Symptom Onset by Race (7-day Moving Average)



% of Cases with Known Source of Exposure by Race (7-Day Moving Average)

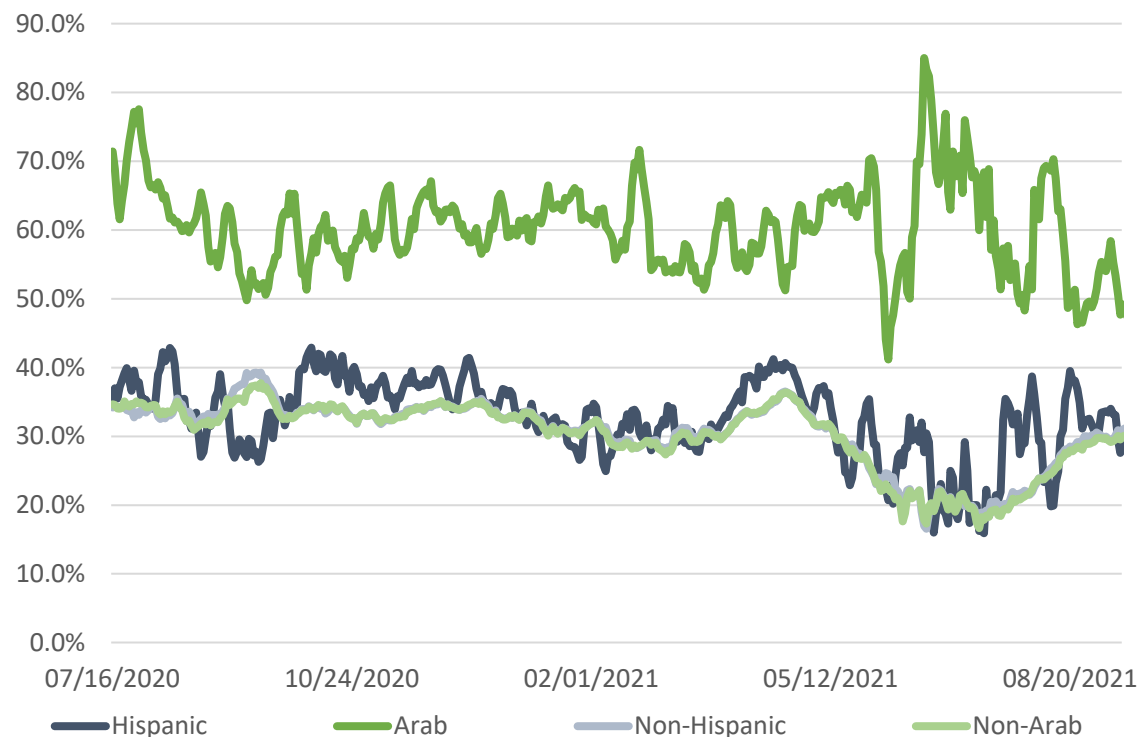


## Updates since last meeting:

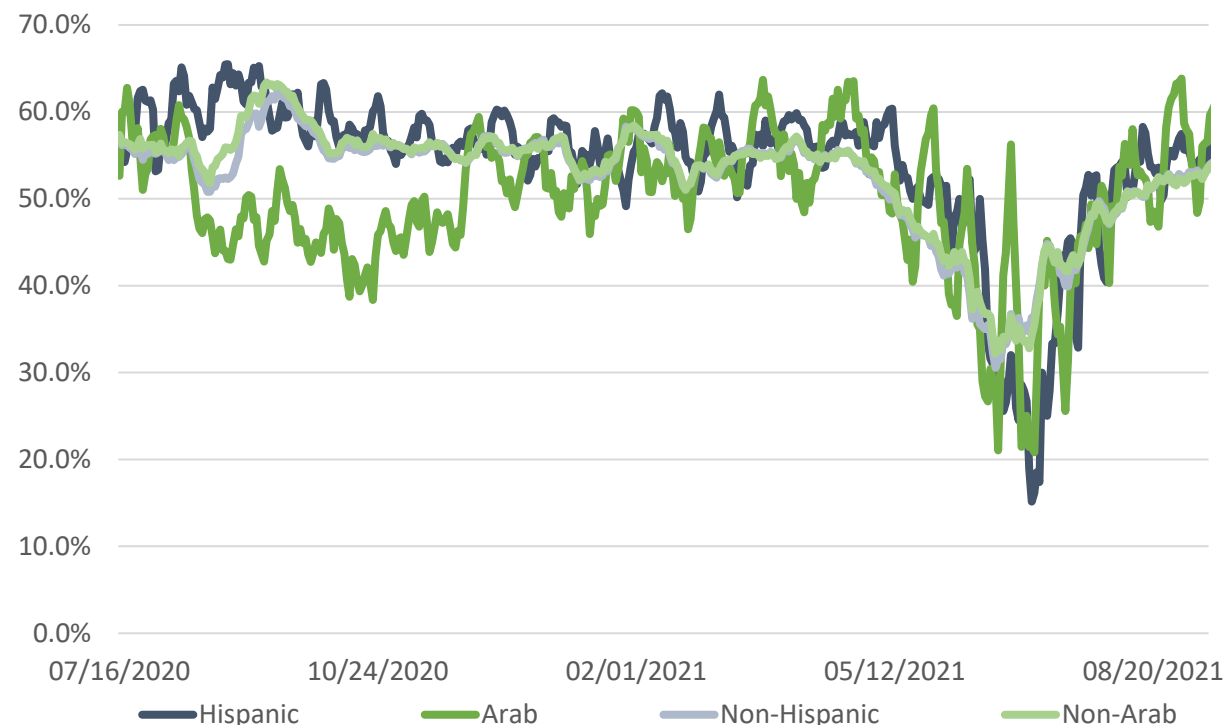
- Cases who are quarantining at symptom onset and who are aware of the source of infection are signals that case investigation and contact tracing resources are working successfully
- The sharp decline in June and July suggests the general public was no longer adhering to public health recommendations
- *In September, percent of cases quarantining and percent with known infection source were returning to levels seen prior to **May** 2021*
- Data excludes those with blank or unknown race and ethnicity data

# COVID-19 Case Investigation Metrics

% of Cases Quarantining at Symptom Onset by Race (7-day Moving Average)



% of Cases with Known Source of Exposure by Ethnicity (7-Day Moving Average)



## Updates since last week:

- Cases who are quarantining at symptom onset and who are aware of the source of infection indicate that case investigation and contact tracing resources are working successfully
- The sharp decline in June and July suggests the general public was no longer adhering to public health recommendations
- *In September, percent of cases quarantining and percent with known infection source were returning to levels seen prior to **May** 2021*
- Data excludes those with blank or unknown race and ethnicity data

# 5.19 Million Michiganders fully vaccinated and 51.9% of total population fully vaccinated

## Vaccination Coverage in Michigan as of 9/23/21

5.19 million people in the state are fully vaccinated\*

83.6% of people aged 65 and older have completed the series (+0.4%)\*

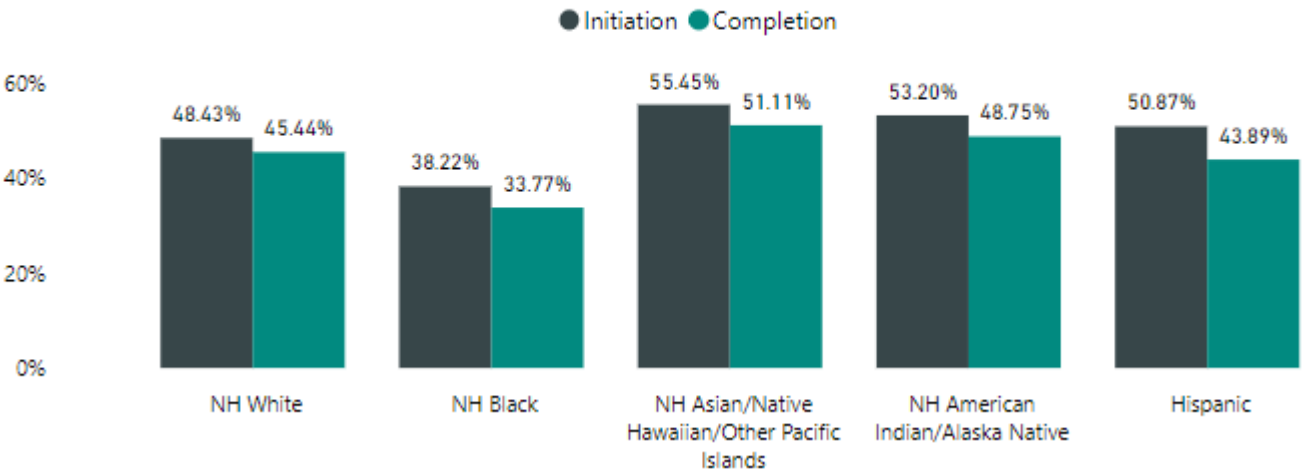
56.6% of total population initiated (+0.4%)\*

Race/Ethnicity¶ for those 12 years and older:

- Initiation coverage highest among those of Non-Hispanic (NH) Asian, Native Hawaiian or Pacific Islander Race (55.4%), then NH American Indian (53.2%), NH White (48.4%), NH Black or African American Races (38.2%).
- Initiation is at 50.9% for those of Hispanic ethnicity
- Completion follows the same pattern
- 19.0% data missing or unknown

Age Group	% At Least One Dose	% Fully Vaccinated	Number Fully Vaccinated
Total Population	56.6%	51.9%	5,187,960
≥ 12 years	65.8%	60.4%	5,187,846
≥ 18 years	68.0%	62.5%	4,905,521
≥ 65 years	88.1%	83.6%	1,475,968

Coverage by Race\*



Source: \*[CDC COVID Data Tracker > Vaccinations in the US](#), ¶ [MCIR COVID-19 Vaccine Dashboard](#)

# Berrien: vaccine coverage for all ages and races by census tract

## COVID Vaccine Coverage

Dashboard Updated: September 17, 2021. **FOR INTERNAL USE ONLY.** Use this page to look at coverage of individual census tracts.



Region 5

Census Tracts

All

Preparedness Region

All

Person's County

Berrien

Person's LHD

All

Dose

Initiation

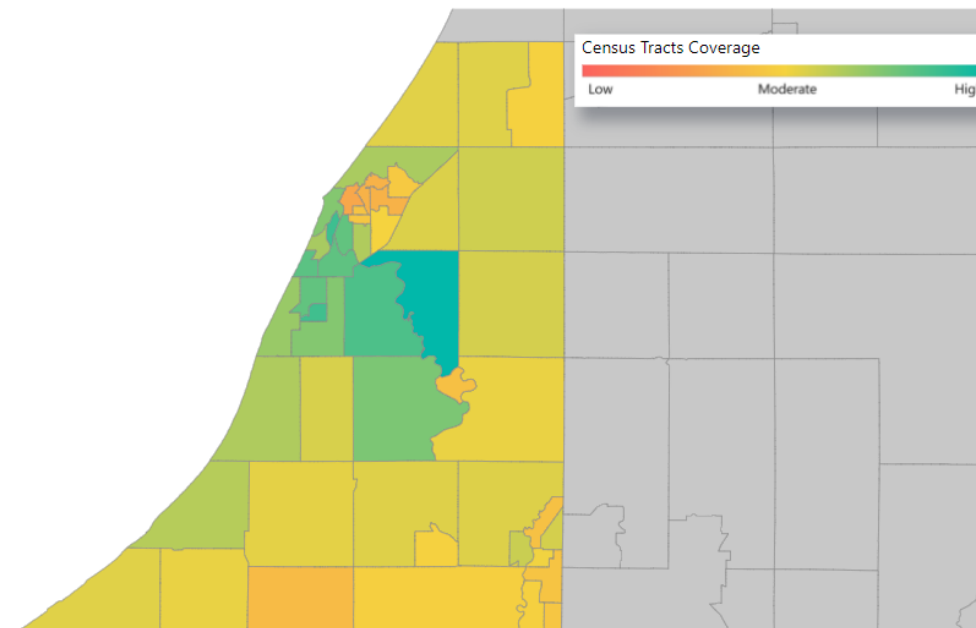
Census Tracts SVI

All

Age

18+ years

### COVID Vaccine Coverage by Census Tracts



Bubble Chart 18 years

Bubble Chart 65 years

Week Ending Date

12/19/2020

9/18/2021

Coverage (% of Residents Vaccinated)

60%

Residents Vaccinated

71,787

MI Population\*

9,957,488

\*2019 US Census estimates



# Calhoun County vaccine coverage by census tract

## COVID Vaccine Coverage

Dashboard Updated: September 17, 2021. **FOR INTERNAL USE ONLY.** Use this page to look at coverage of individual census tracts.



Region 5

Census Tracts

All

Preparedness Region

All

Person's County

Calhoun

Person's LHD

All

Dose

Initiation

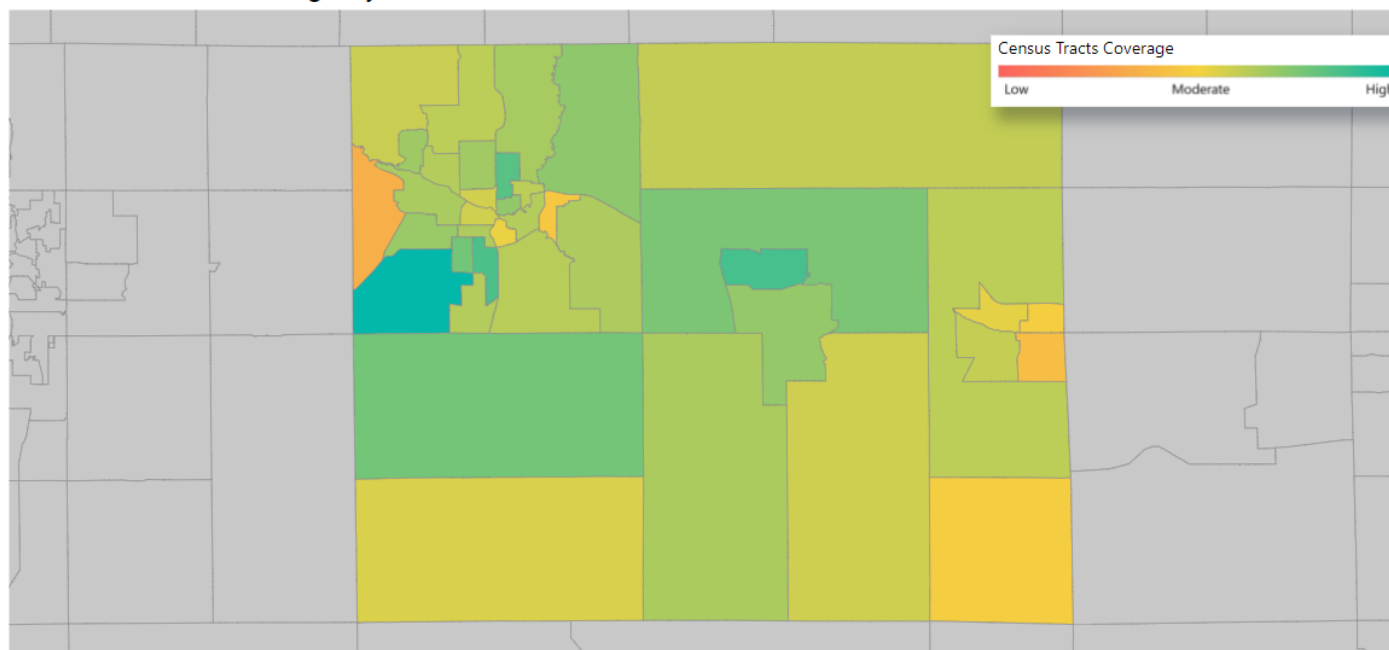
Census Tracts SVI

All

Age

18+ years

### COVID Vaccine Coverage by Census Tracts



Bubble Chart 18 years

Bubble Chart 65 years

Week Ending Date

12/19/2020

9/18/2021

Coverage (% of Residents Vaccinated)

56%

Residents Vaccinated

58,239

MI Population\*

9,957,488

\*2019 US Census estimates

# Genesee County vaccine completion by census tract

## COVID Vaccine Coverage

Dashboard Updated: September 17, 2021. **FOR INTERNAL USE ONLY.** Use this page to look at coverage of individual census tracts.



Region 3

Census Tracts

All

Preparedness Region

All

Person's County

Genesee

Person's LHD

All

Dose

Initiation

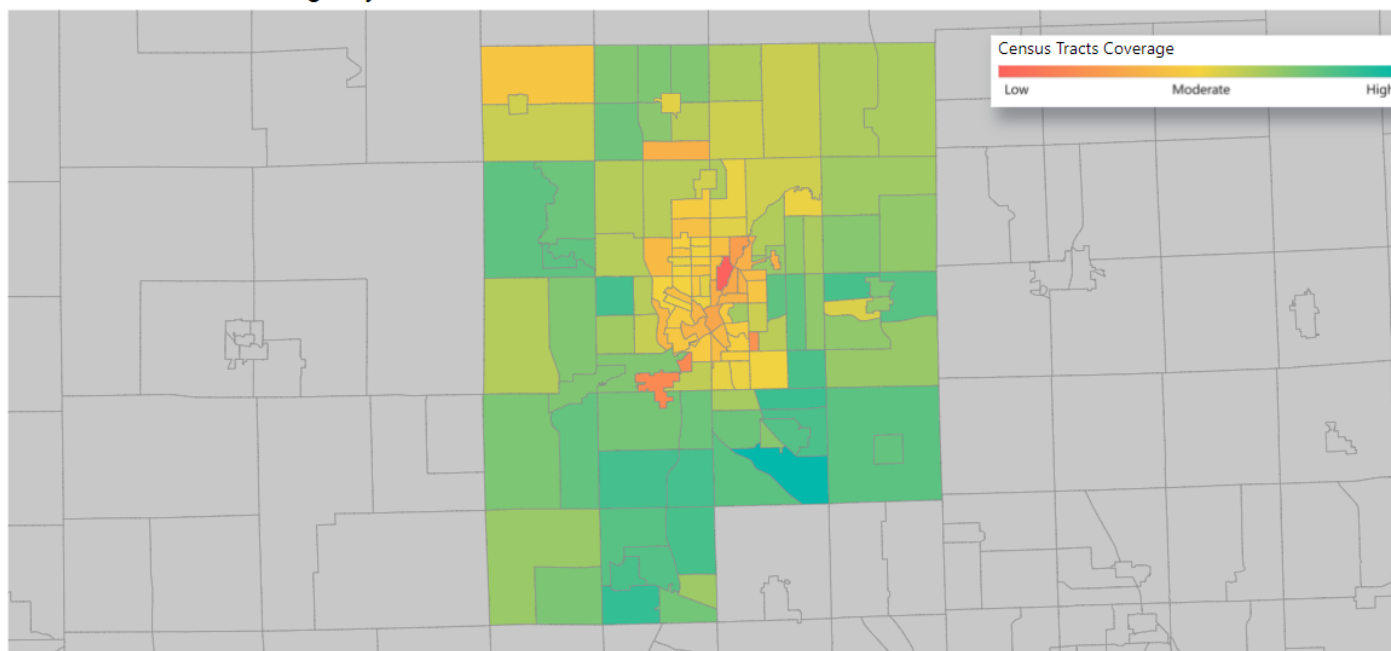
Census Tracts SVI

All

Age

18+ years

### COVID Vaccine Coverage by Census Tracts



Bubble Chart 18 years

Bubble Chart 65 years

Week Ending Date

12/19/2020

9/18/2021

Coverage (% of Residents Vaccinated)

57%

Residents Vaccinated

180,026

MI Population\*

9,957,488

\*2019 US Census estimates

# Kent County vaccine coverage by census tract

## COVID Vaccine Coverage

Dashboard Updated: September 17, 2021. **FOR INTERNAL USE ONLY.** Use this page to look at coverage of individual census tracts.



Region 6

Census Tracts

All

Preparedness Region

All

Person's County

Kent

Person's LHD

All

Dose

Initiation

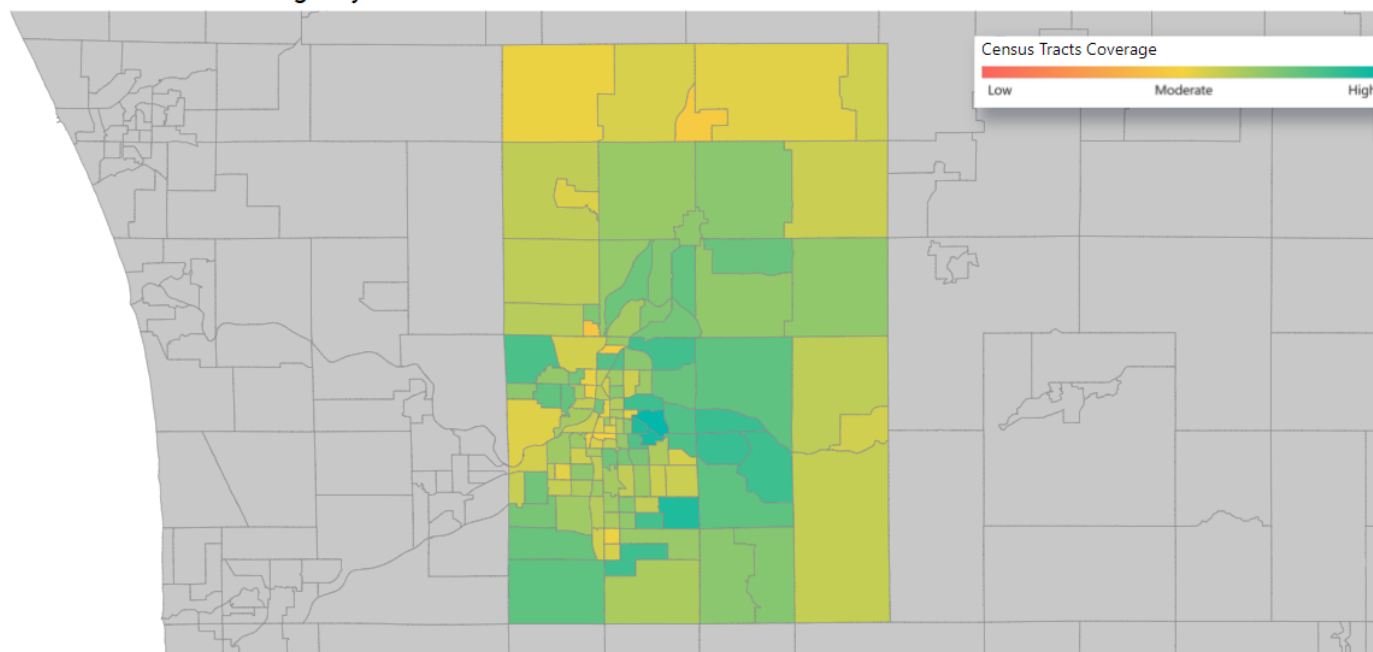
Census Tracts SVI

All

Age

18+ years

## COVID Vaccine Coverage by Census Tracts



Bubble Chart 18 years

Bubble Chart 65 years

Week Ending Date

12/19/2020

9/18/2021

Coverage (% of Residents Vaccinated)

72%

Residents Vaccinated

348,177

MI Population\*

9,957,488

\*2019 US Census estimates

# Muskegon County vaccine coverage by census tract

## COVID Vaccine Coverage

Dashboard Updated: September 17, 2021. **FOR INTERNAL USE ONLY.** Use this page to look at coverage of individual census tracts.



Region 6

Census Tracts

All

Preparedness Region

All

Person's County

Muskegon

Person's LHD

All

Dose

Initiation

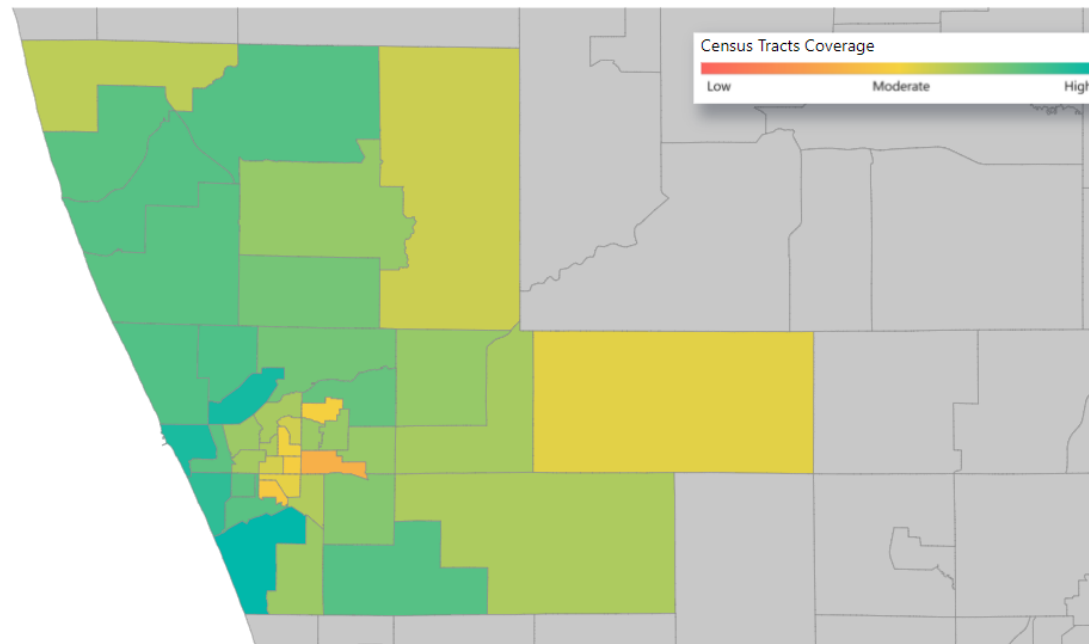
Census Tracts SVI

All

Age

18+ years

### COVID Vaccine Coverage by Census Tracts



Bubble Chart 18 years

Bubble Chart 65 years

Week Ending Date

12/19/2020

9/18/2021

Coverage (% of Residents Vaccinated)

63%

Residents Vaccinated

83,740

MI Population\*

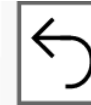
9,957,488

\*2019 US Census estimates

# Saginaw County vaccine coverage by census tract

## COVID Vaccine Coverage

Dashboard Updated: September 17, 2021. **FOR INTERNAL USE ONLY.** Use this page to look at coverage of individual census tracts.



Region 3

Census Tracts

All

Preparedness Region

All

Person's County

Saginaw

Person's LHD

All

Dose

Initiation

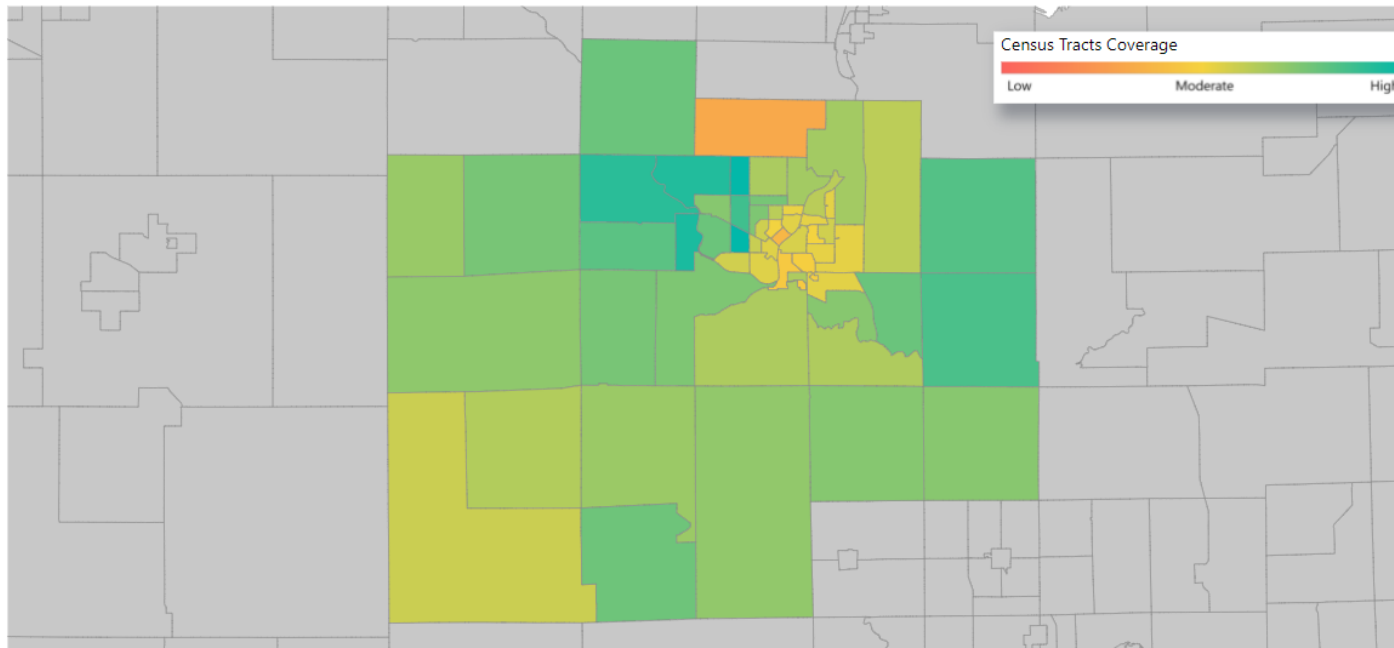
Census Tracts SVI

All

Age

18+ years

## COVID Vaccine Coverage by Census Tracts



Bubble Chart 18 years

Bubble Chart 65 years

Week Ending Date

12/19/2020

9/18/2021

Coverage (% of Residents Vaccinated)

59%

Residents Vaccinated

89,374

MI Population\*

9,957,488

\*2019 US Census estimates

# Wayne County (including Detroit) vaccine completion by census tract

## COVID Vaccine Coverage

Dashboard Updated: September 17, 2021. **FOR INTERNAL USE ONLY.** Use this page to look at coverage of individual census tracts.



Region 2S

Census Tracts

All

Preparedness Region

All

Person's County

Multiple sele...

Person's LHD

All

Dose

Initiation

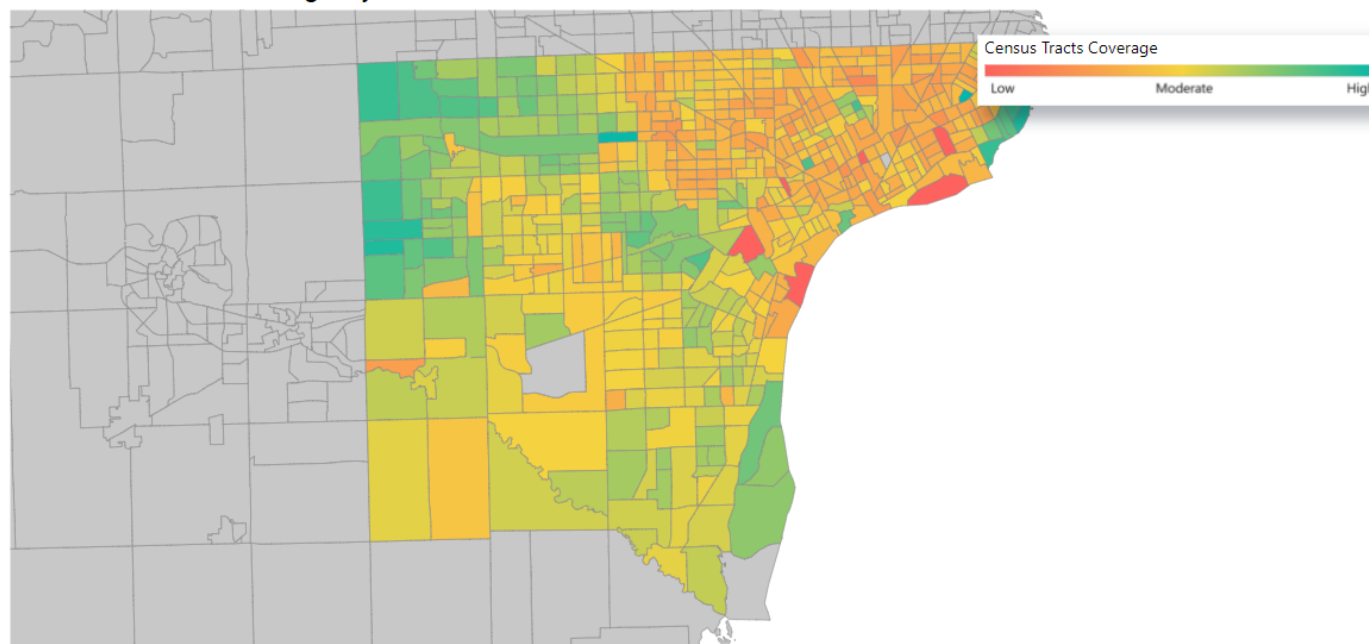
Census Tracts SVI

All

Age

18+ years

## COVID Vaccine Coverage by Census Tracts



Bubble Chart 18 years

Bubble Chart 65 years

Week Ending Date

12/19/2020

9/18/2021

Coverage (% of Residents Vaccinated)

62%

Residents Vaccinated

833,395

MI Population\*

9,957,488

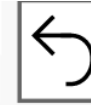
\*2019 US Census estimates

Detroit City – 46%  
Wayne Co – 72%

# Michigan: vaccine coverage for all ages and races by census tract

## COVID Vaccine Coverage

Dashboard Updated: September 17, 2021. **FOR INTERNAL USE ONLY.** Use this page to look at coverage of individual census tracts.



### Michigan

Census Tracts

All

Preparedness Region

All

Person's County

All

Person's LHD

All

Dose

Initiation

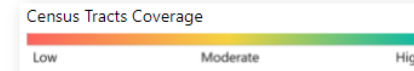
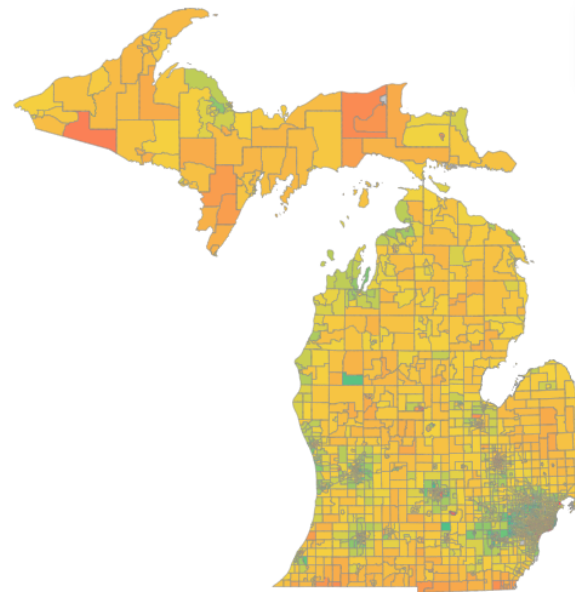
Census Tracts SVI

All

Age

18+ years

## COVID Vaccine Coverage by Census Tracts



Bubble Chart 18 years

Bubble Chart 65 years

Week Ending Date

12/19/2020

9/18/2021

Coverage (% of Residents Vaccinated)

64%

Residents Vaccinated

4,980,259

MI Population\*

9,957,488

\*2019 US Census estimates

# Special Section: COVID-19 and pediatric populations



# Number of Cases and Case Rates are Increasing for All Age Groups

Daily new confirmed and probable cases per million by age group (7-day rolling average)

Age Group	Average <sup>†</sup> daily cases	Average <sup>†</sup> Daily Case Rate	One Week % Change (Δ #)
0-9	229.6	199.1	18% (+35)
<b>10-19</b>	<b>485.3</b>	<b>386.7</b>	<b>27% (+102)</b>
20-29	383.6	<b>278.0</b>	22% (+69)
30-39	364.9	<b>300.8</b>	26% (+75)
40-49	279.9	<b>237.3</b>	23% (+53)
50-59	245.4	181.8	13% (+29)
60-69	192.7	151.1	15% (+26)
70-79	103.1	134.5	6% (+6)
80+	50.0	120.7	13% (+6)
<b>Total<sup>¶</sup></b>	<b>2,348.6</b>	<b>234.4</b>	<b>21% (+401)</b>

<sup>†</sup> Rolling 7-day average; <sup>¶</sup> Total may not reflect state due to missing age data

Note: Case information sourced from MDHHS and reflects date of onset of symptoms

Source: MDHHS – Michigan Disease Surveillance System

- Largest one-week growth among those 10 to 19 years of age (27%, +102 cases/day)
- Average daily number of cases (485.3) and avg. daily case rate (386.7 case/mil) are highest for those aged 10-19
- Case rate trends are increasing for all age groups
- Case rates for age groups 10-19, 20-29, 30-39, and 40-49 are all higher than the state
- Case rates bottomed out on June 26, 2021

National Comparison

Spread

Severity

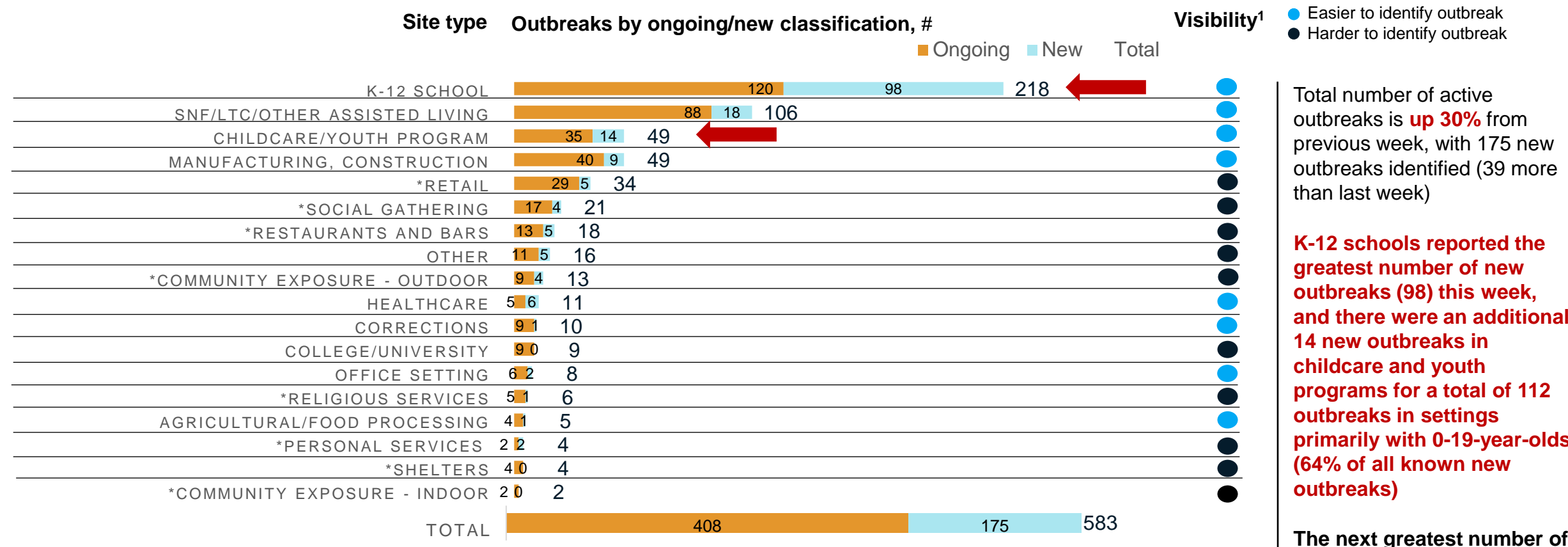
Public Health  
Response

Other  
Indicators

Science  
Round-up

# Number of Outbreaks Reported has Increased

Number of outbreak investigations by site type, week ending Sep 16



1. Based on a setting's level of control and the extent of time patrons/residents spend in the particular setting, different settings have differing levels of ability to ascertain whether a case derived from that setting

NOTE: Many factors, including the lack of ability to conduct effective contact tracing in certain settings, may result in significant underreporting of outbreaks. This chart does not provide a complete picture of outbreaks in Michigan and the absence of identified outbreaks in a particular setting in no way provides evidence that, in fact, that setting is not having outbreaks.

Source: LHD Weekly Sitreps

# K-12 school outbreaks, recent and ongoing, week ending Sep 16

Number of reported outbreaks increased since last week (108 to 218), including increases in High Schools (44 to 88), Middle/Jr High (17 to 46), Pre K-Elementary (39 to 79), and Administrative (4 to 5).

Region	Number of reported cases, #	# Ongoing - Excluding New	# New	Number of outbreaks	Range of cases per outbreak
Region 1	<div><div>198</div><div>61</div></div>			53	2-18
Region 2n	23 <div><div>27</div></div>			17	2-8
Region 2s	52 <div><div>48</div></div>			22	2-14
Region 3	<div><div>255</div><div>80</div></div>			51	2-42
Region 5	66 <div><div>48</div></div>			24	2-31
Region 6	<div><div>123</div><div>80</div></div>			30	2-44
Region 7	0 <div><div>17</div></div>			3	4-9
Region 8	59 <div><div>51</div></div>			18	2-20
Total	<div><div>776</div><div>412</div></div>			218	2-44

Grade level	Number of reported cases, #	# Ongoing - Excluding New	# New	Number of outbreaks	Range of cases per outbreak
Pre-school - elem.	<div><div>203</div><div>150</div></div>			79	2-31
Jr. high/middle school	<div><div>143</div><div>95</div></div>			46	2-13
High school	<div><div>416</div><div>167</div></div>			88	2-44
Administrative	14 <div><div>0</div></div>			5	2-6
Total	<div><div>776</div><div>412</div></div>			218	2-44

Many factors, including the lack of ability to conduct effective contact tracing in certain settings, may result in significant underreporting of outbreaks. This chart does not provide a complete picture of outbreaks in Michigan and the absence of identified outbreaks in a particular setting in no way provides evidence that, in fact, that setting is not having outbreaks.

Source: LHD Weekly Sitreps



# Number of Hospital Admissions and Admission Rates are Increasing for Most Age Groups but Slower than Last Week

Daily new hospital admission per million by age group (7-day rolling average)

Age Group	Average <sup>†</sup> Daily Hospital Admissions	Average <sup>†</sup> Daily Hospital Admission Rate*	One Week % Change (Δ #)
0-11	3.7	2.7	<b>63% (+1)</b>
12-17	1.9	2.5	18% (+<1)
18-19	2.1	8.1	50% (+1)
20-29	11.7	8.5	8% (+1)
30-39	14.9	12.2	13% (+2)
40-49	19.4	16.5	-6% (-1)
50-59	31.9	<b>23.6</b>	1% (+<1)
60-69	<b>37.7</b>	<b>29.6</b>	3% (+1)
70-79	33.7	<b>44.0</b>	2% (+1)
80+	27.9	<b>67.3</b>	11% (+3)
<b>Total<sup>¶</sup></b>	<b>187.1</b>	<b>18.7</b>	<b>5% (+9)</b>

\* Rate per 1 million residents; † Rolling 7-day average; ¶ Total may not reflect state due to missing age data  
 Note: Hospital Admission data reflects date data was submitted  
 Source: CHECC and EM Resource

- Through September 20, there were an average of 187 hospital admissions per day due to COVID-19, which is 9 (5%) more than last week
- The largest one-week percent change in admissions was among those 0-11 years of age (63%) and this accounts for ~1 additional COVID hospital admission per day
- Average number of daily hospital admissions (37.7) are highest for those aged 60-69
- Average daily hospital admission rate (67.3 hospital admissions/million) are highest for those aged 80+

Note: for some age groups, small changes in number of hospitalization admissions can cause large change in One Week Percent Change

National Comparison

Spread

Severity

Public Health  
Response

Other  
Indicators

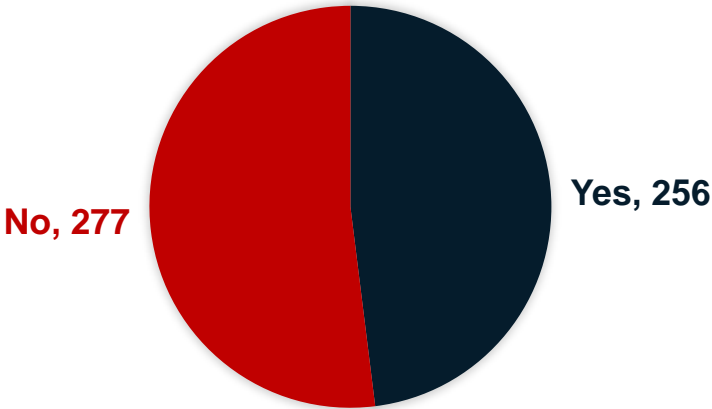
Science  
Round-up

# MI School Districts and Mask Policy as of Sept 21, 2021

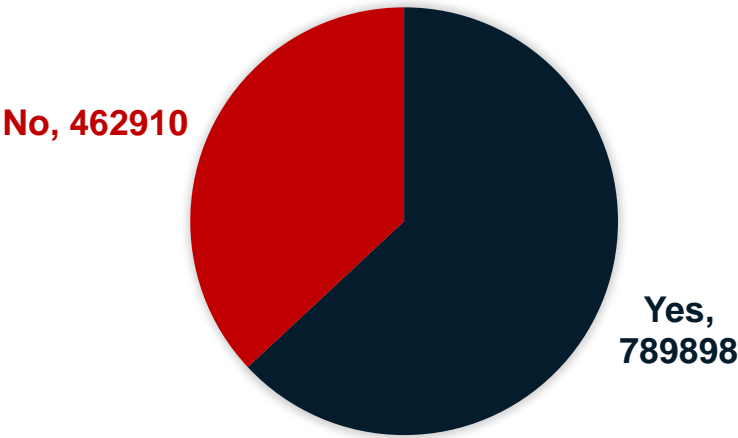
**Yes** – Any masking policy in some subset of school grades

**No** – No mask policies (includes unknown)

NUMBER OF SCHOOL DISTRICTS  
WITH MASK MANDATES IN K-12  
SETTING



NUMBER OF STUDENTS\* IN K-12  
SCHOOLS WITH MASK MANDATES



- **48%** (256/533) of **school districts** have mandatory mask policy
- School districts with mandatory mask policies for all grades K-12 **cover 63%** (789,898/1,252,808) of **all students\***

\* Student size based on school enrollment numbers; Buses and public transportation are federally required to enforce mask mandates

Source: Executive Office of Governor School District Mask Policy

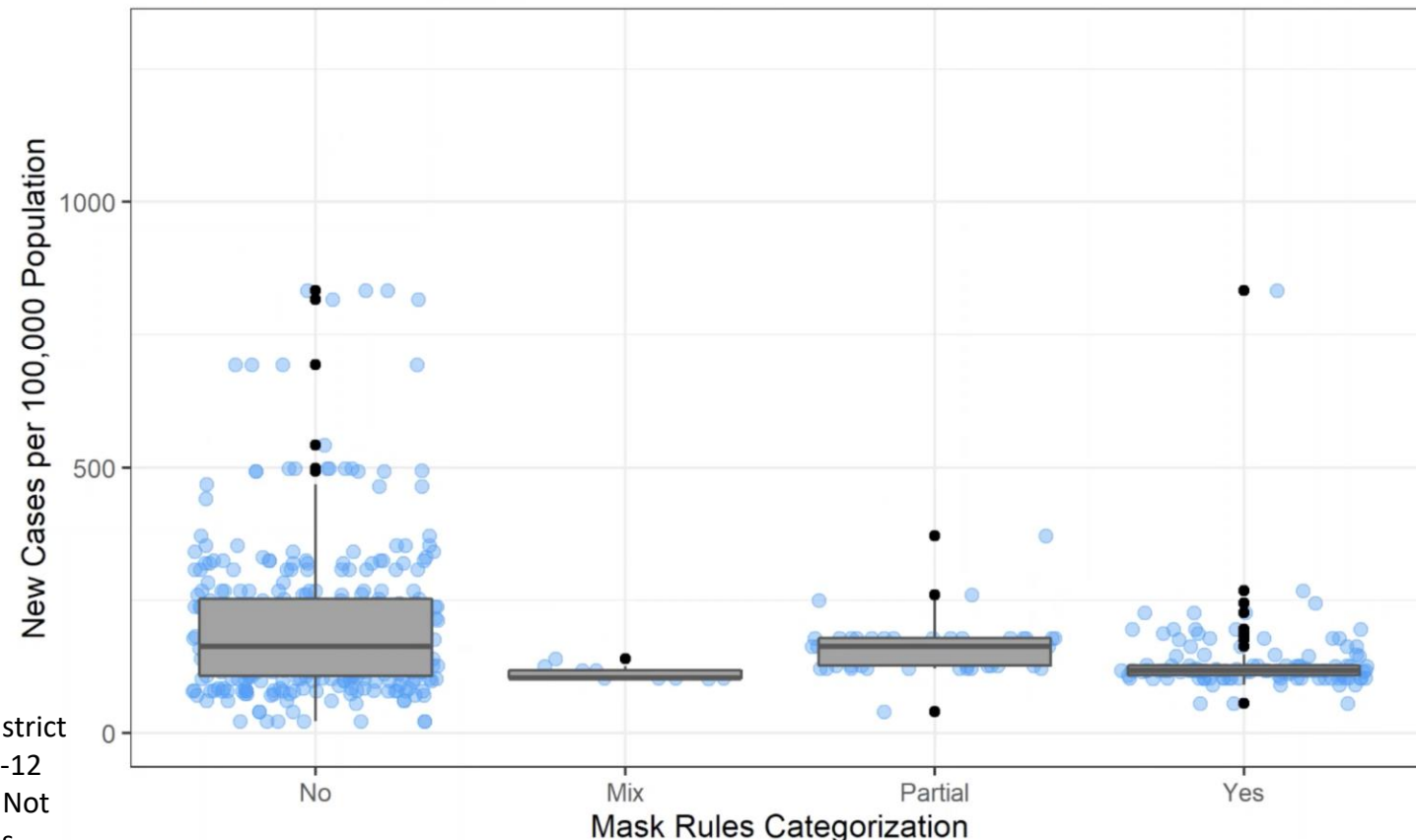


# School reopening: cases in children are increasing and case rates are higher in counties where school districts without masking

- Over the course of school reopening period (Aug 18 – Sep 8, from earliest to latest first day of school), the largest % increases have been among those <18 years
- Case rate range is higher in counties where school districts do not have mask rules

Age Group	0-11	12-18	19-30	31-50	51-65	>65
Change in 7-day avg. new cases during school reopening period (Aug 18 – Sep 8)	+57%	+96%	+12%	+5%	-2%	+3%

[2021-09-10] Michigan - COVID-19 Cases in School Aged Children [0-18]  
7 Day Sum of New Cases per 100,000 Population



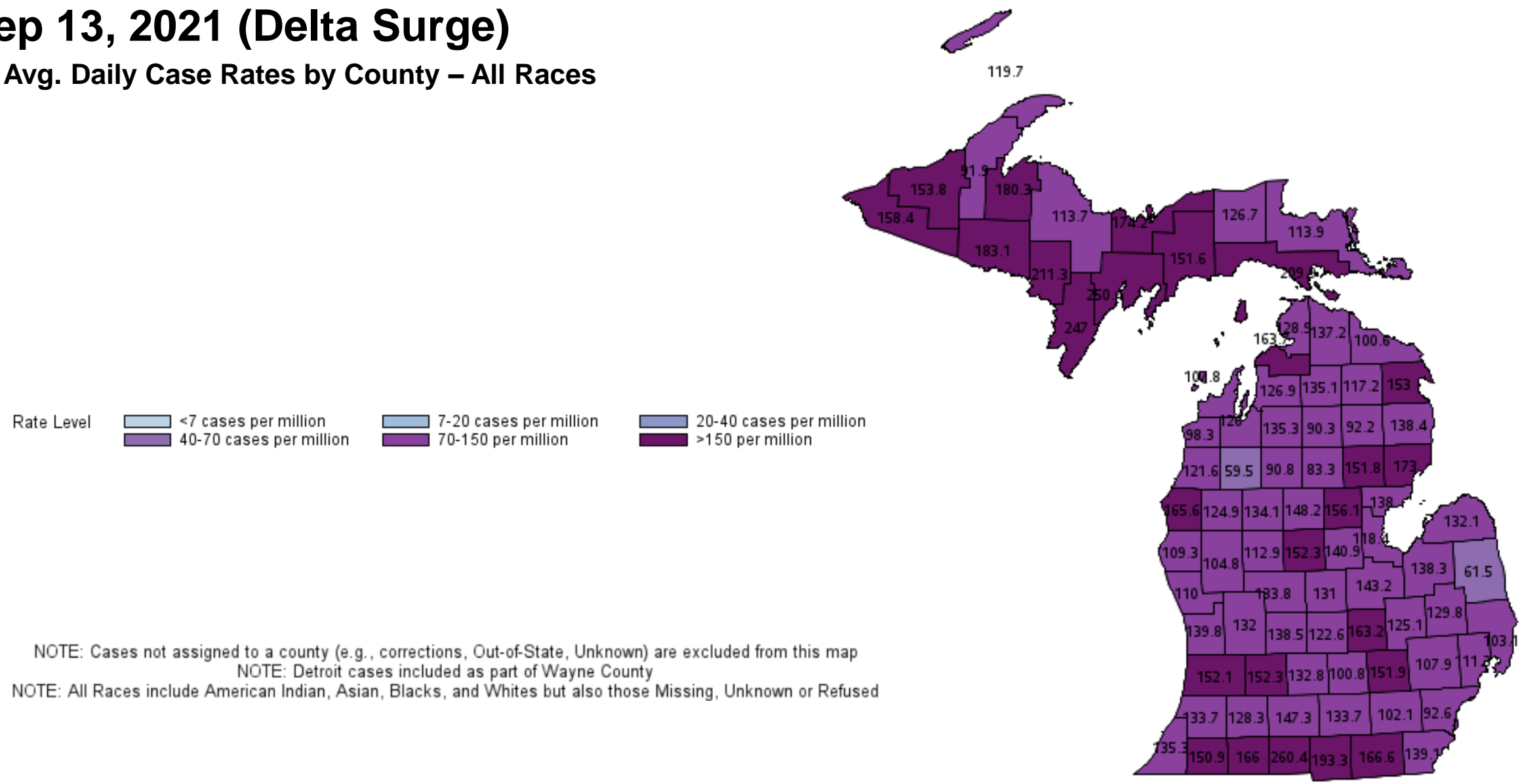
Each blue dot is one school district, assigned the case number for its associated county  
Case data as of 9/13/2021

Data Sources: MDSS/MDHHS, Executive Office of Governor School District Mask Policy. Mask rules categories: Yes – Mandatory masking in all K-12 schools, Partial – All schools but not all K-12 grades (e.g., K-6), Mix – Not all schools, regardless of K-12 grades, No – No mask policies (includes unknown). Each blue dot is a district, y-axis shows case rate for the county where the district is located (or where most of the district is located).

# Appendix

# Average daily new cases per million people by race and county, Jul 1 – Sep 13, 2021 (Delta Surge)

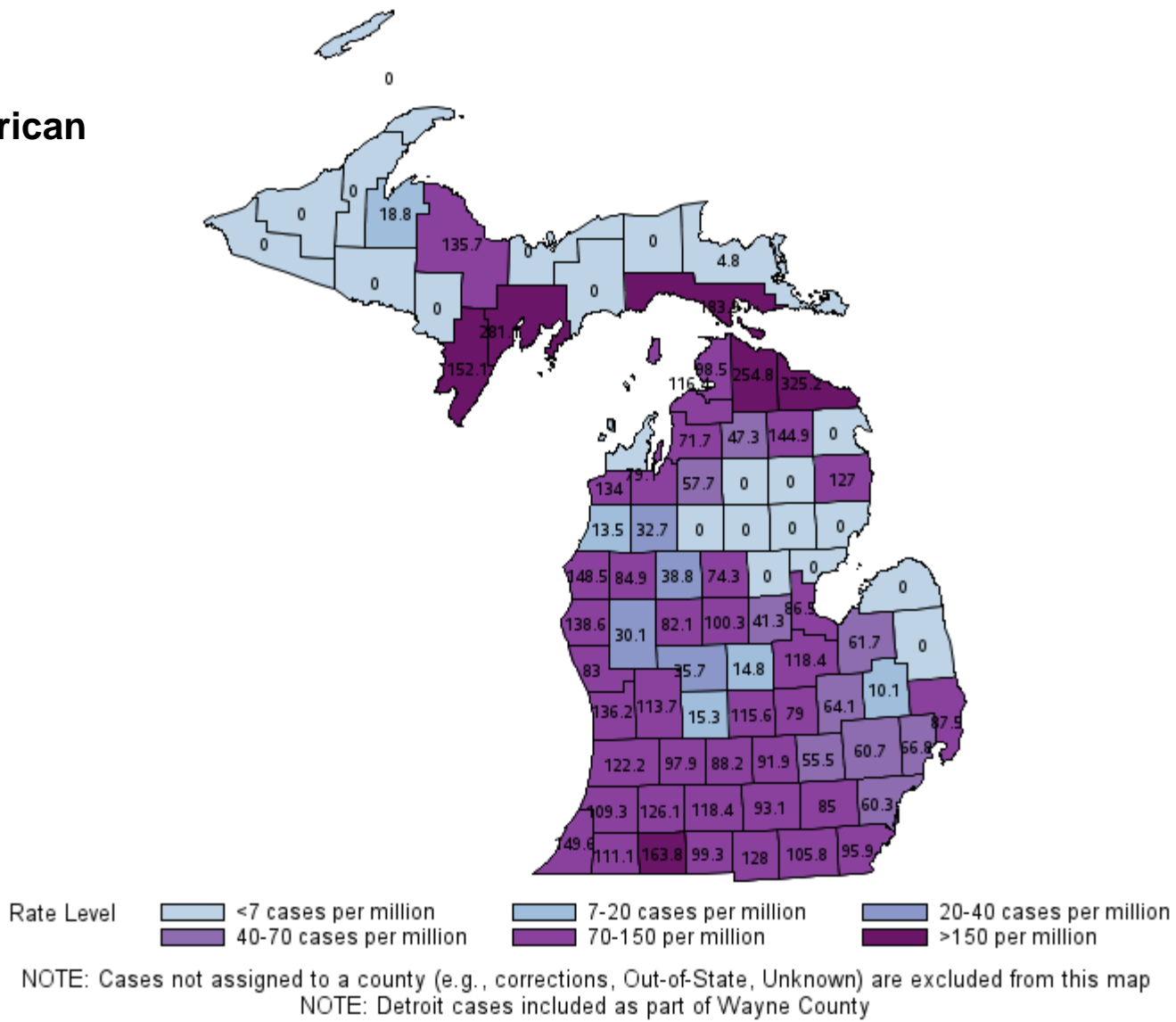
Avg. Daily Case Rates by County – All Races





# Average daily new cases per million people by race and county, Jul 1 – Sep 13, 2021 (Delta Surge)

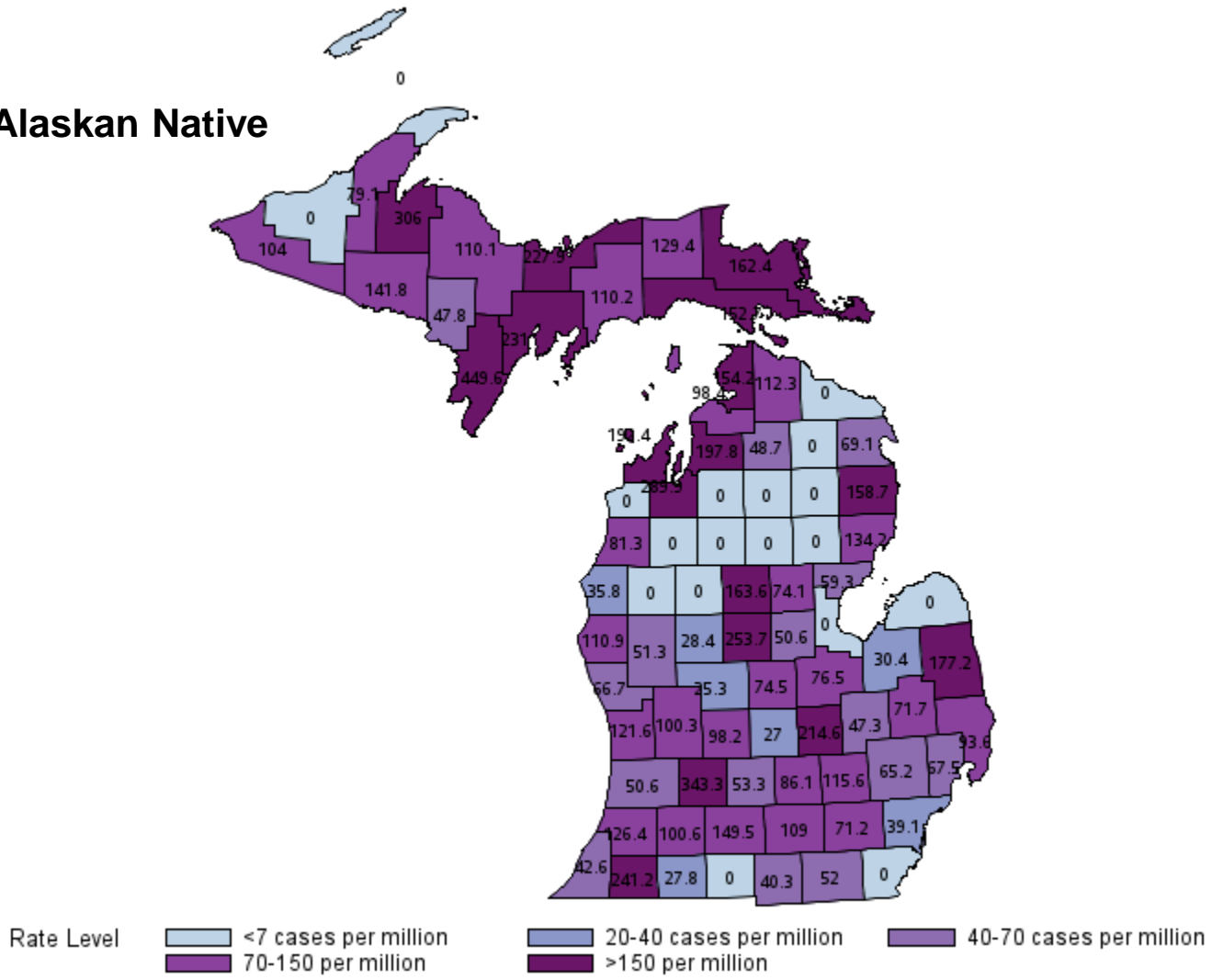
Avg. Daily Case Rates by County – Black/African American



Note: Case information sourced from MDHHS and reflects onset date of confirmed and probable cases.  
Source: MDHHS – Michigan Disease Surveillance System

# Average daily new cases per million people by race and county, Jul 1 – Sep 13, 2021 (Delta Surge)

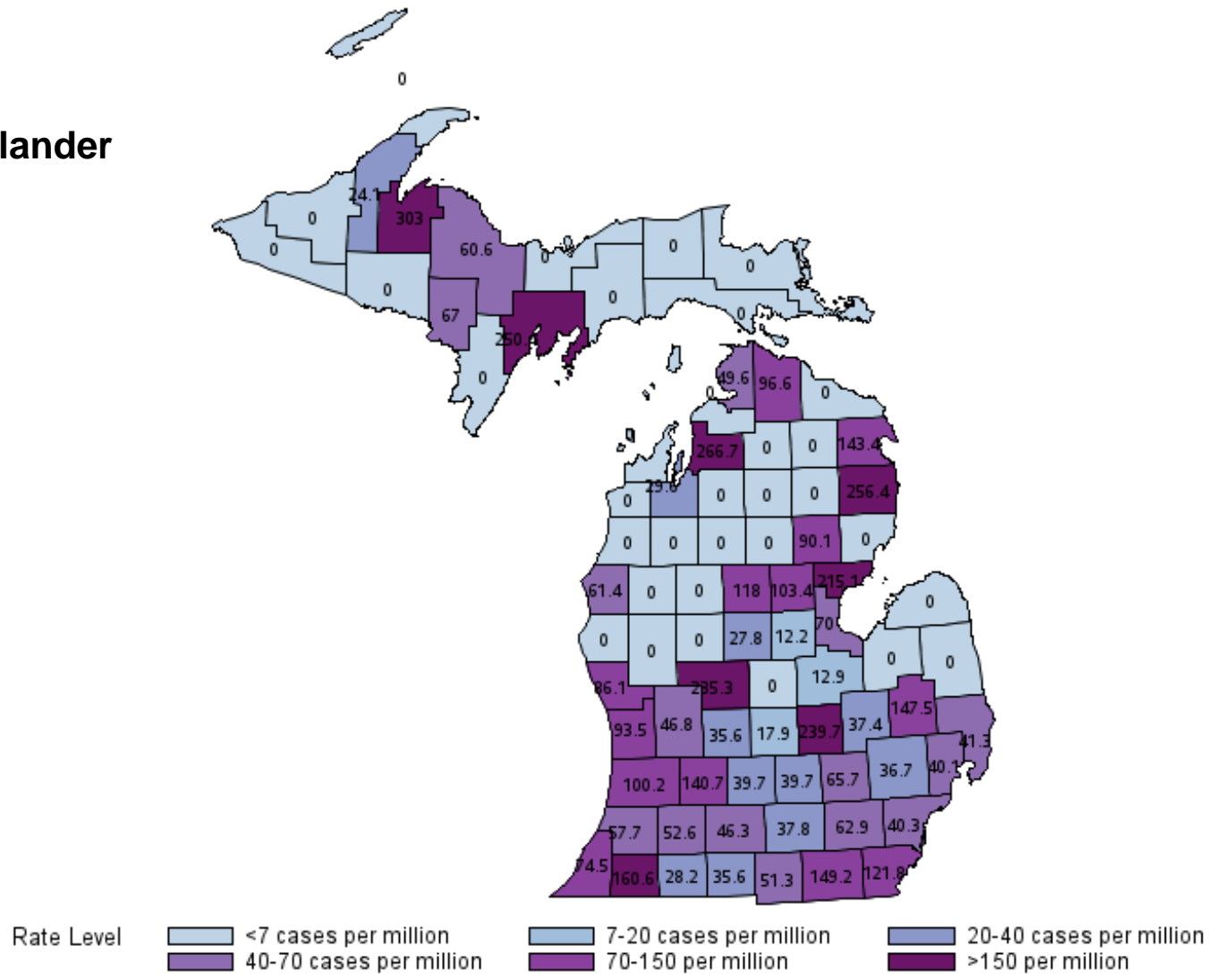
Avg. Daily Case Rates by County – American Indian/Alaskan Native



NOTE: Cases not assigned to a county (e.g., corrections, Out-of-State, Unknown) are excluded from this map  
NOTE: Detroit cases included as part of Wayne County

# Average daily new cases per million people by race and county, Jul 1 – Sep 13, 2021 (Delta Surge)

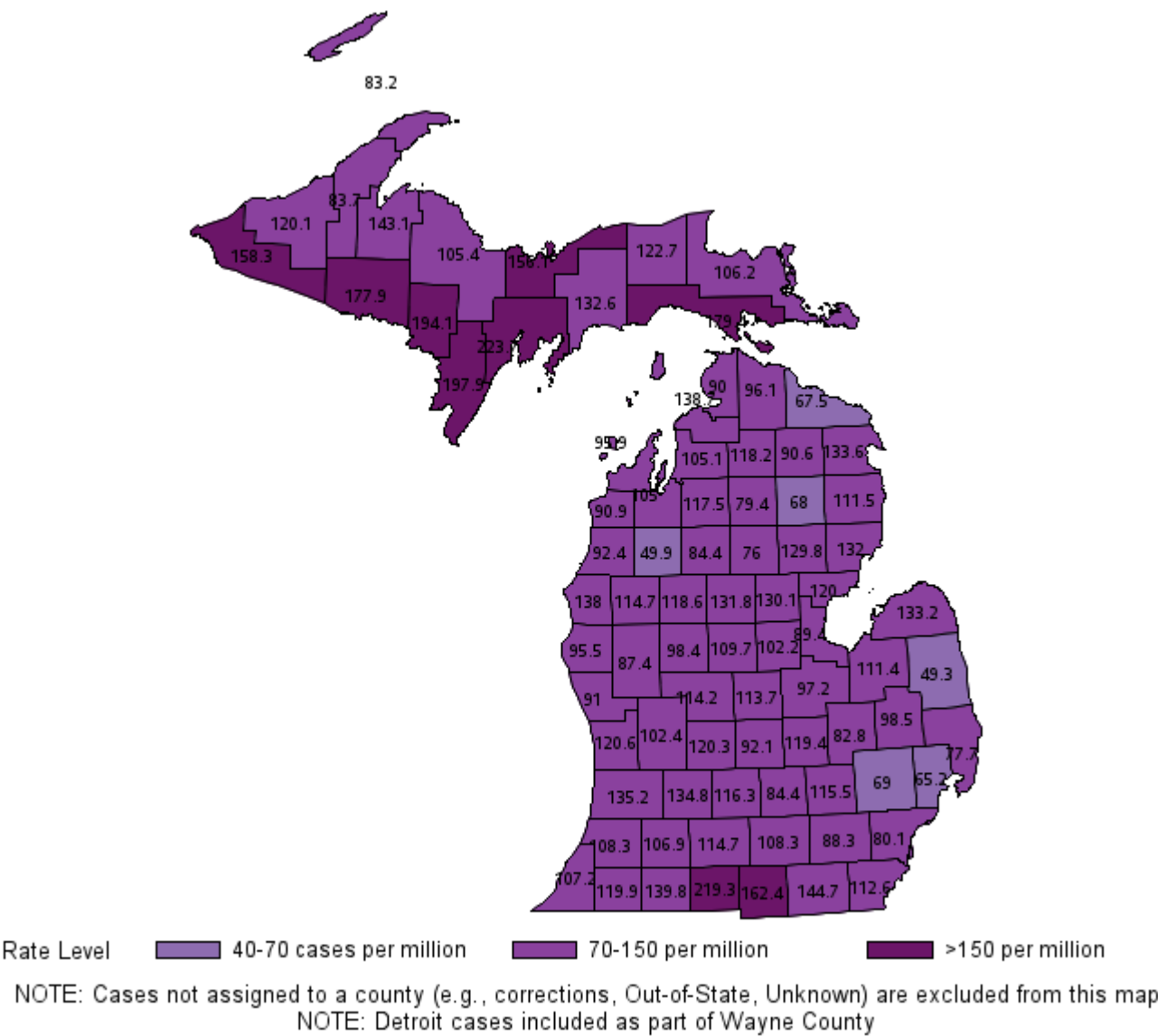
Avg. Daily Case Rates by County – Asian/Pacific Islander



Note: Case information sourced from MDHHS and reflects onset date of confirmed and probable cases.  
Source: MDHHS – Michigan Disease Surveillance System

# Average daily new cases per million people by race and county, Jul 1 – Sep 13, 2021 (Delta Surge)

Avg. Daily Case Rates by County – White



Note: Case information sourced from MDHHS and reflects onset date of confirmed and probable cases.  
Source: MDHHS – Michigan Disease Surveillance System